

Fig. 1

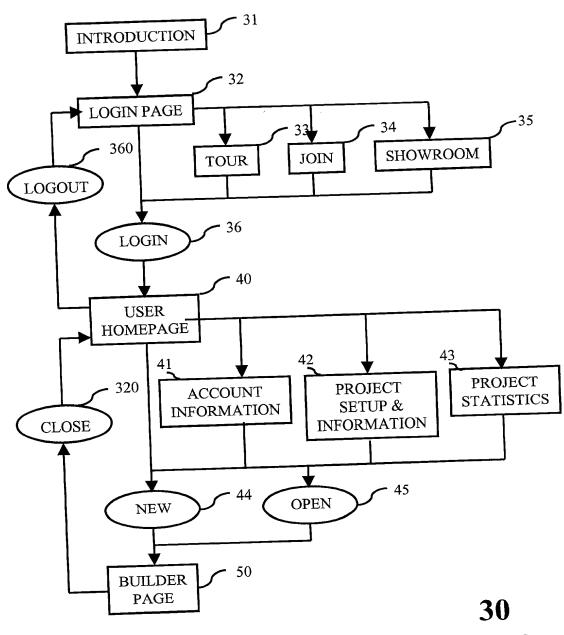
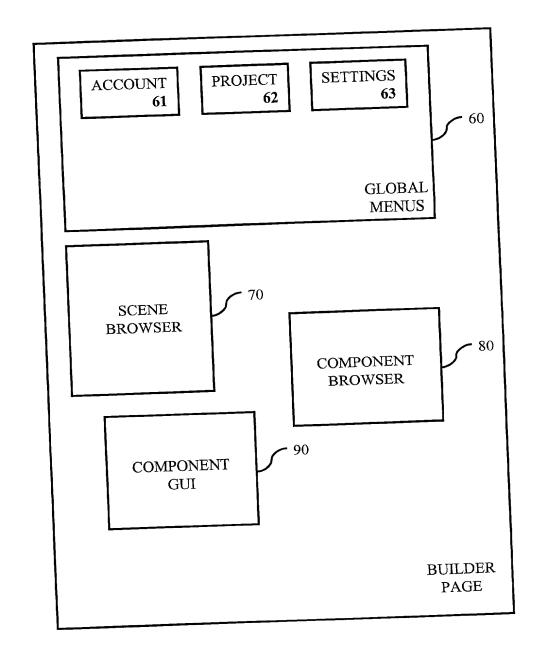
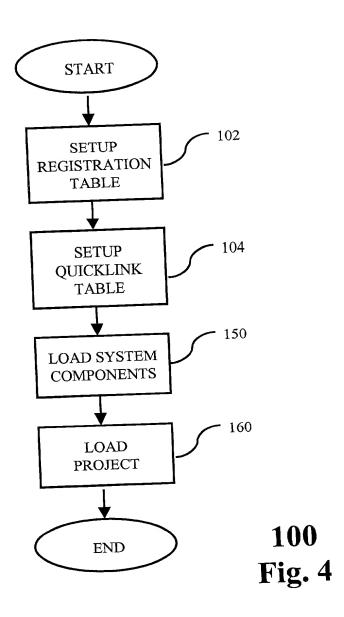


Fig. 2



50 Fig. 3



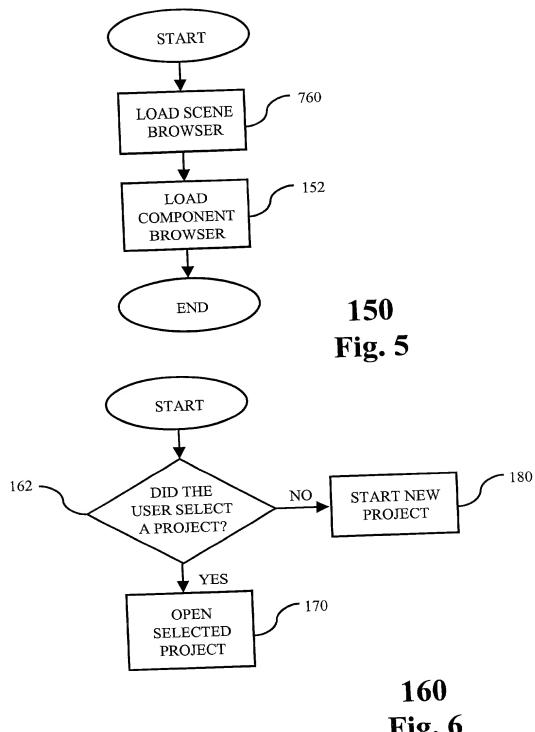
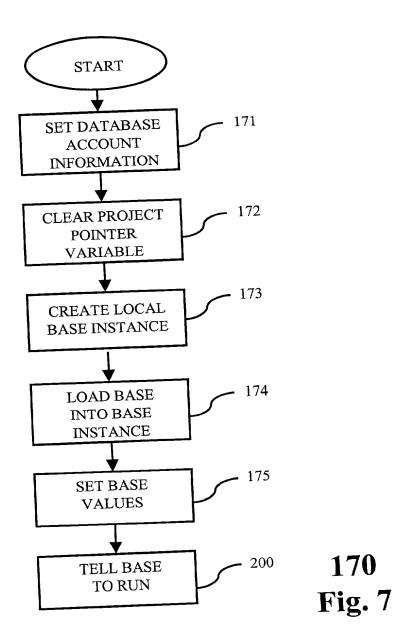
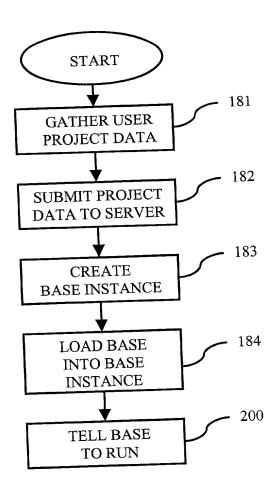
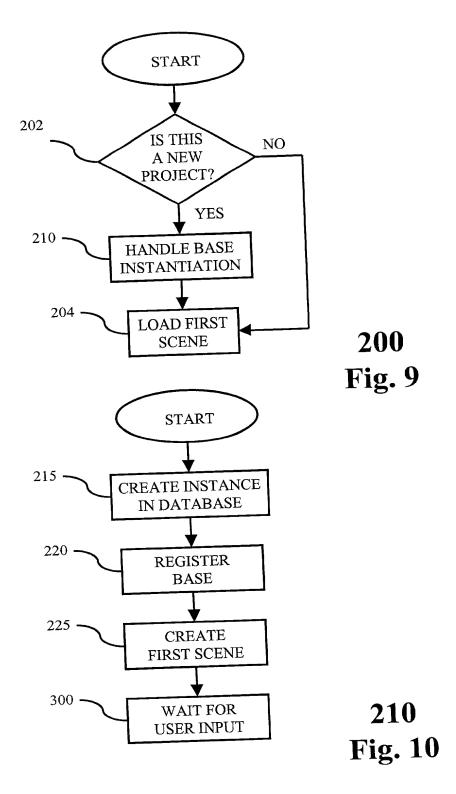


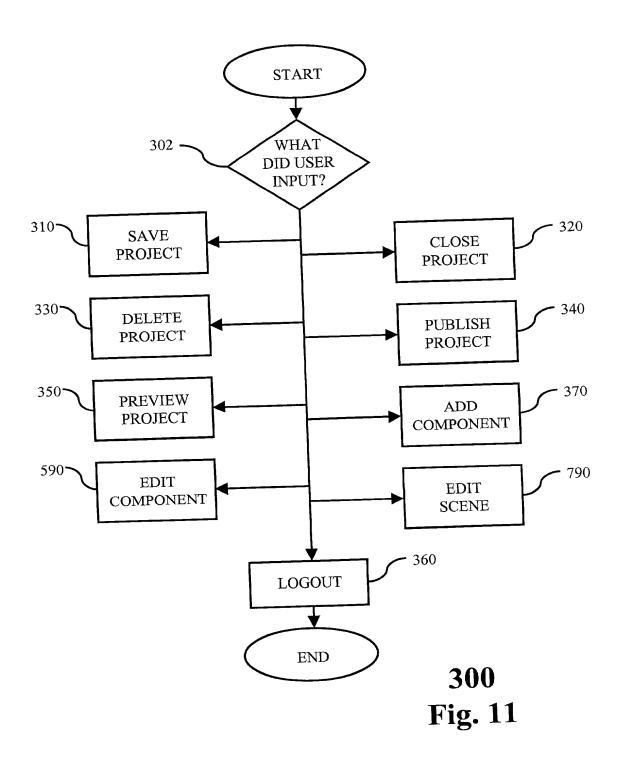
Fig. 6

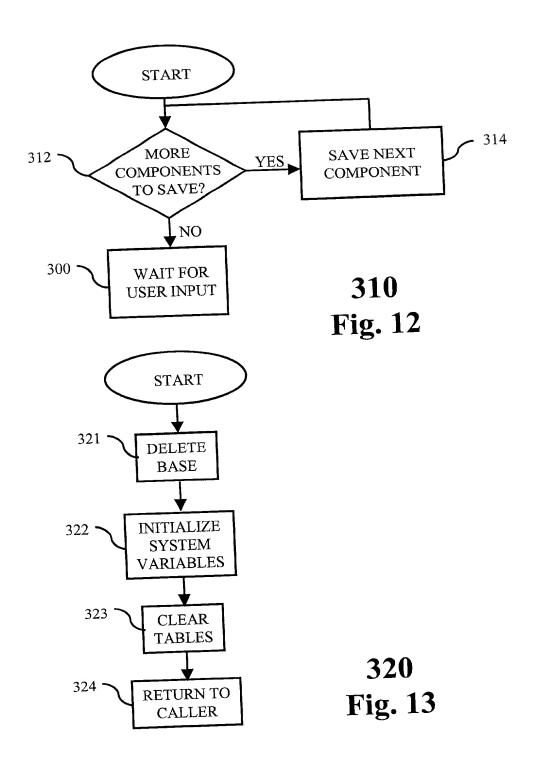


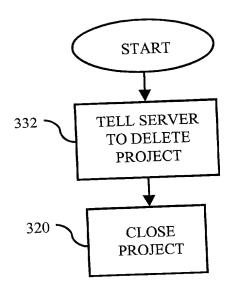


180 Fig. 8

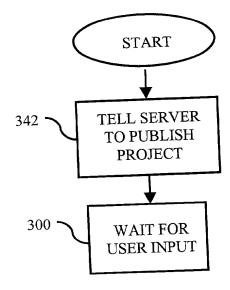




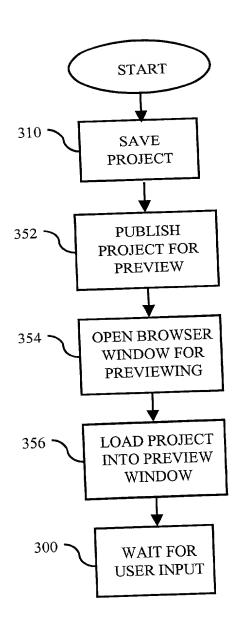




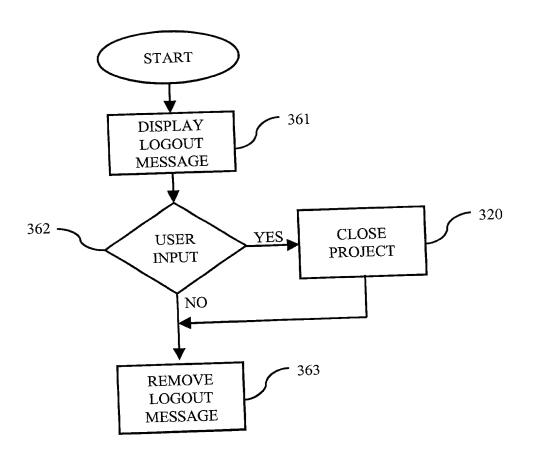
330 Fig. 14



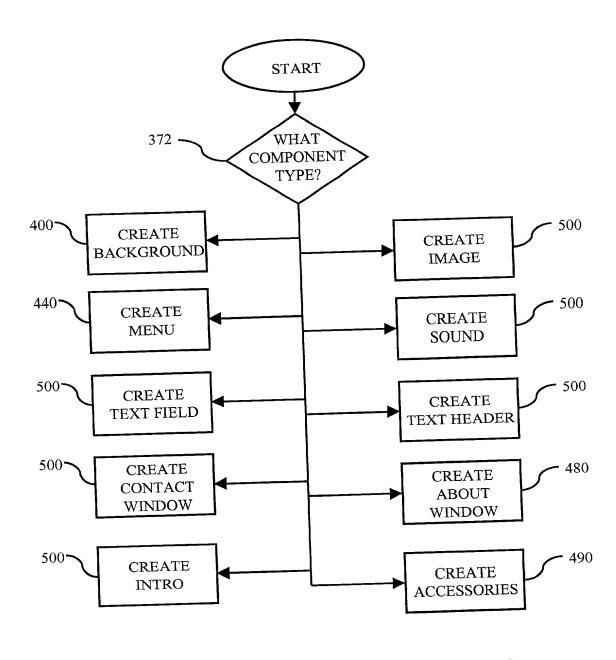
340 Fig. 15



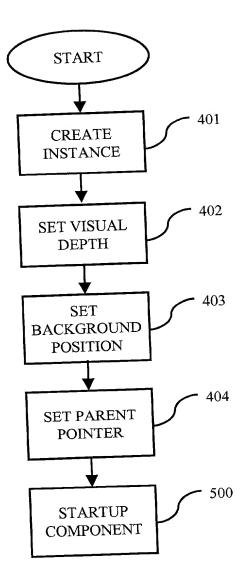
350 Fig. 16



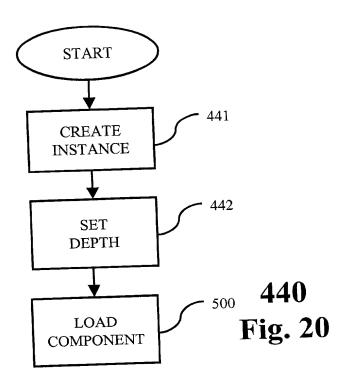
360 Fig. 17

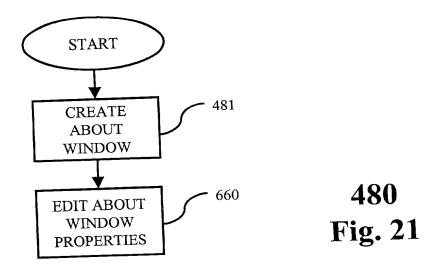


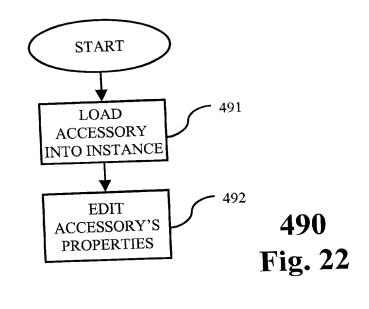
370 Fig. 18

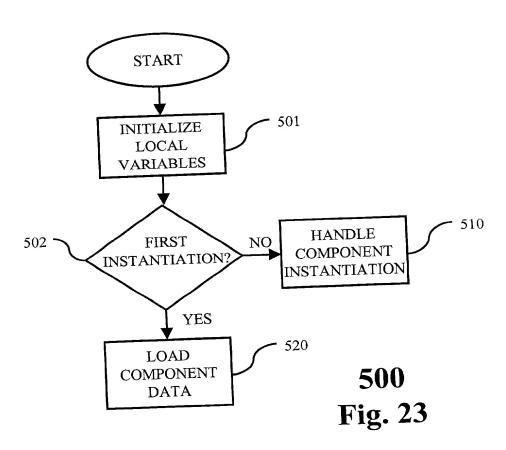


400 Fig. 19

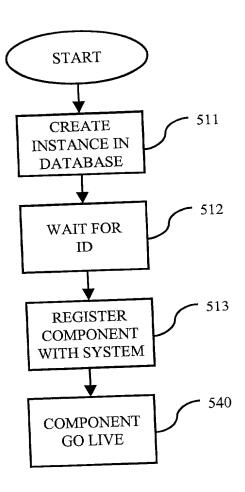




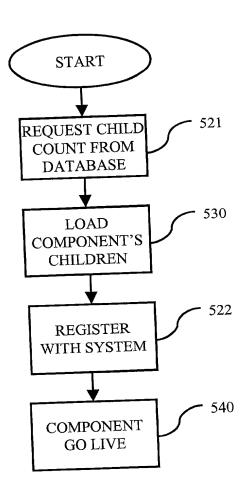




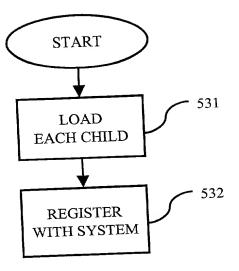
91-11



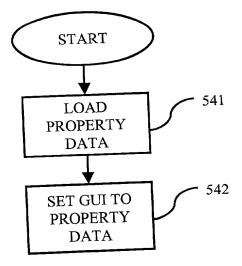
510 Fig. 24



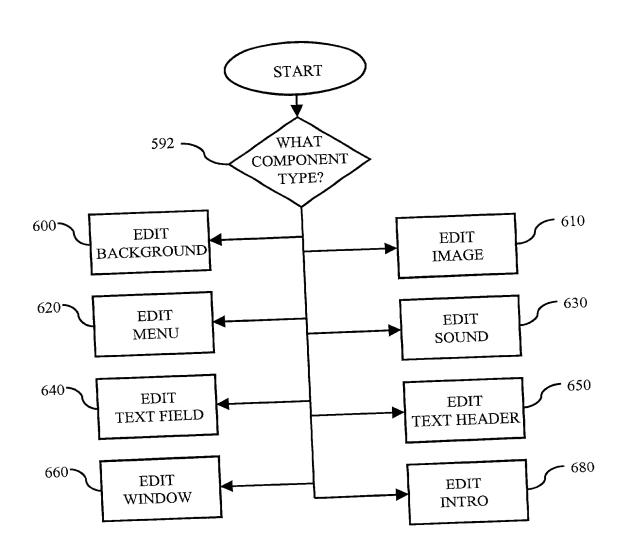
520 Fig. 25



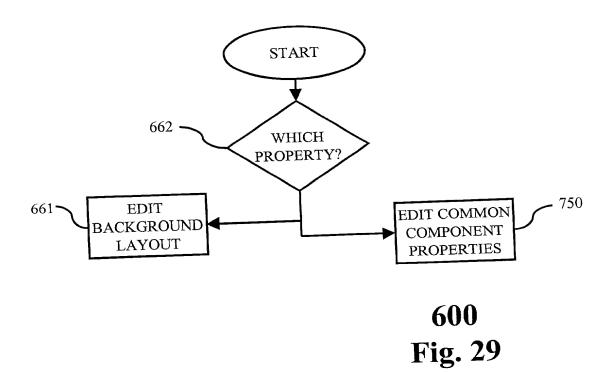
530 Fig. 26

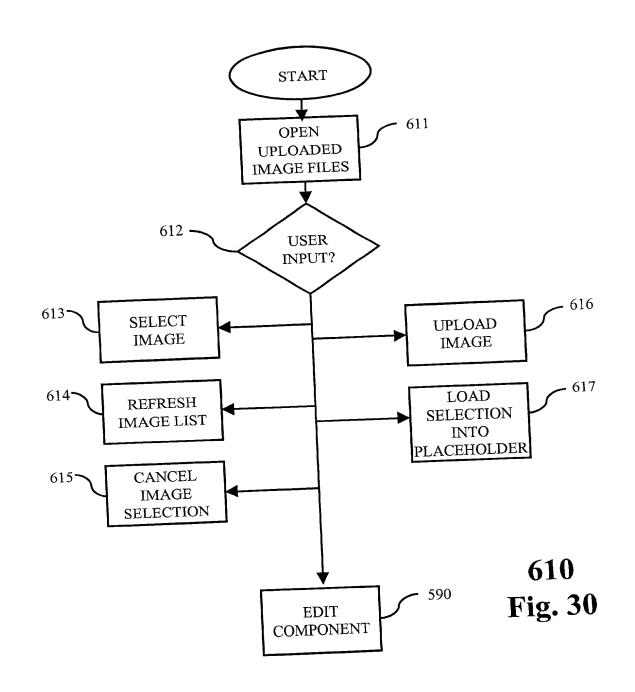


540 Fig. 27



590 Fig. 28

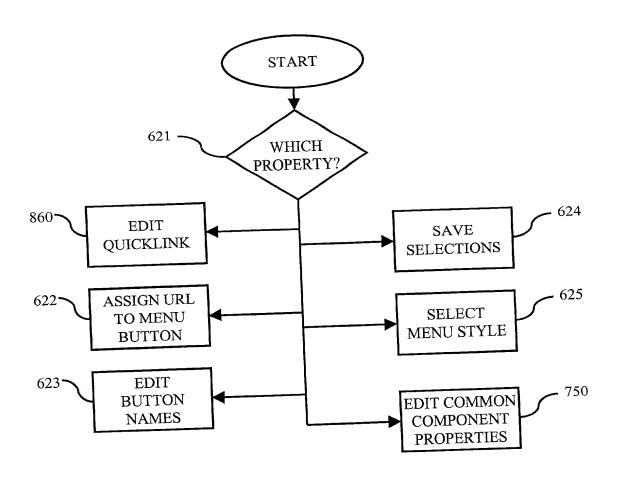




618	Asset Image Upload					+	-		-		
당	Enter		-	-		+	+	-	-		
£	Has an intro been selected?	Yes	ON				-	-			
ا د			-	Yes	ω	o N					
C3	Has a loop been selected:	_	A	A* B*	*		-				
C4	Which loop type?		-	-+	_		Yes	No	+	_	
G	Is loop count finished?				_			- X	Yes	-	
92	Has an outro been selected?						-++	-	-	$\frac{1}{1}$	-11
		+		-							
A1	Set position, scale, rotation and alpha			_	_			-	+		Τ-
A2	play selected intro	>		-+				-			\neg
	mod E			` `	> -					_	
A3	play selected loop	+	+		>						
A4	Check loop count				7				-	-	
A5	Decrement loop count								>	_	
A6	Play outro									-	
-	Go to Rest frame									-	
Ä		++	[5	74	90	g Ce	C4 1	Done Done	one	
	DISPOSITION	C2 C3	3	9		-H			\dashv	$\frac{1}{1}$	\Box
					010						
		IImload Component 618	Juni	noner	it 612						

Fig. 31 – Asset Image Upload Component 618

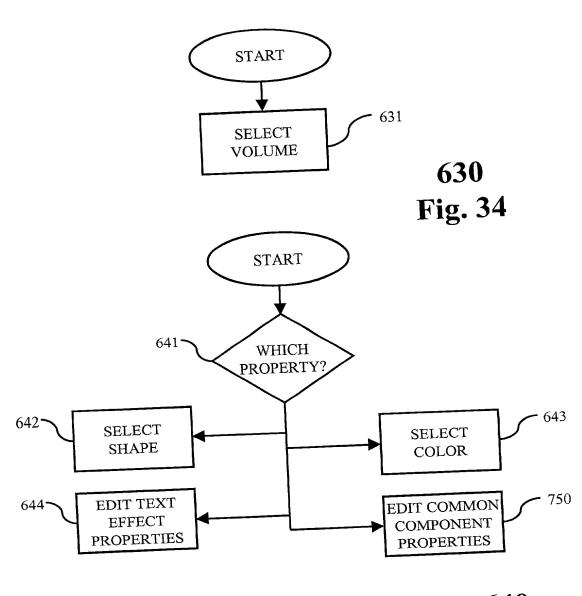
 $\text{Key} - A^* = \text{play once}$, $B^* = \text{infinite loop}$, $C^* = \text{loop} \# \text{ of times selected}$



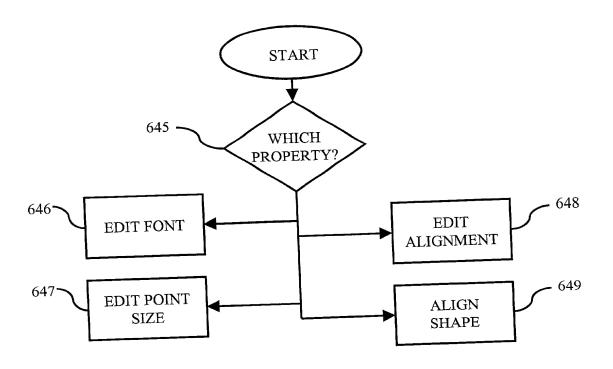
620 Fig. 32

Navigation Bar							
Enter	X						
Is number of buttons equal to number requested?		No	Yes				
Set position, scale, rotation, and alpha	X						
Receive button specific variables	X						1
Duplicate and position button		X					
Select icon		X					
Generate text field		X					T
Calculate size		X					
Scale and position hit area		X					
DISPOSITION	C2	C2	Done				T
	Enter Is number of buttons equal to number requested? Set position, scale, rotation, and alpha Receive button specific variables Duplicate and position button Select icon Generate text field Calculate size Scale and position hit area	Enter X Is number of buttons equal to number requested? Set position, scale, rotation, and alpha X Receive button specific variables X Duplicate and position button Select icon Generate text field Calculate size Scale and position hit area	Enter X Is number of buttons equal to number requested? No Set position, scale, rotation, and alpha X Receive button specific variables X Duplicate and position button X Select icon X Generate text field X Calculate size X Scale and position hit area X	Enter X No Yes Is number of buttons equal to number requested? No Yes Set position, scale, rotation, and alpha X Receive button specific variables X Duplicate and position button X Select icon X Generate text field X Calculate size X Scale and position hit area X	Enter X No Yes Is number of buttons equal to number requested? No Yes Set position, scale, rotation, and alpha X Receive button specific variables X Duplicate and position button X Select icon X Generate text field X X Scale and position hit area X X X X X X X X X X X X X X X X X X X	Enter X No Yes Is number of buttons equal to number requested? No Yes Set position, scale, rotation, and alpha X Receive button specific variables X Duplicate and position button X Select icon X Generate text field X X Scale and position hit area	Enter X No Yes Is number of buttons equal to number requested? No Yes Set position, scale, rotation, and alpha X Receive button specific variables X Duplicate and position button X Select icon X Generate text field X X Scale and position hit area

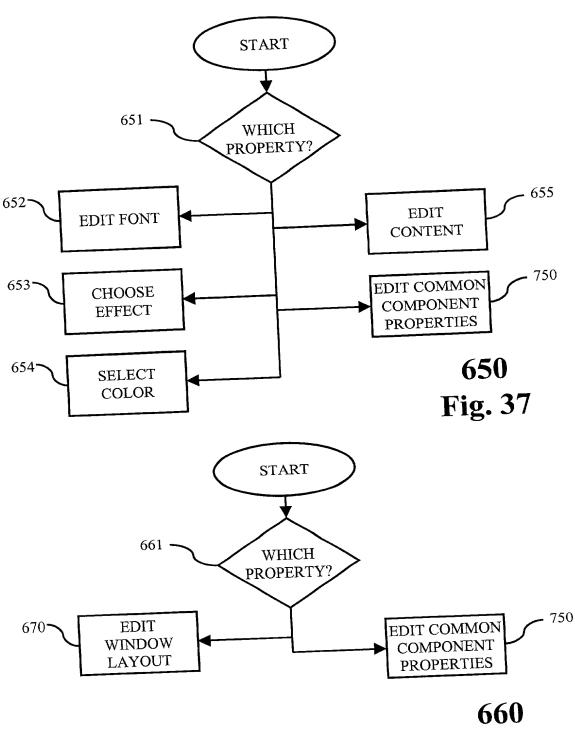
Fig. 33 - Navigation Bar Component 628



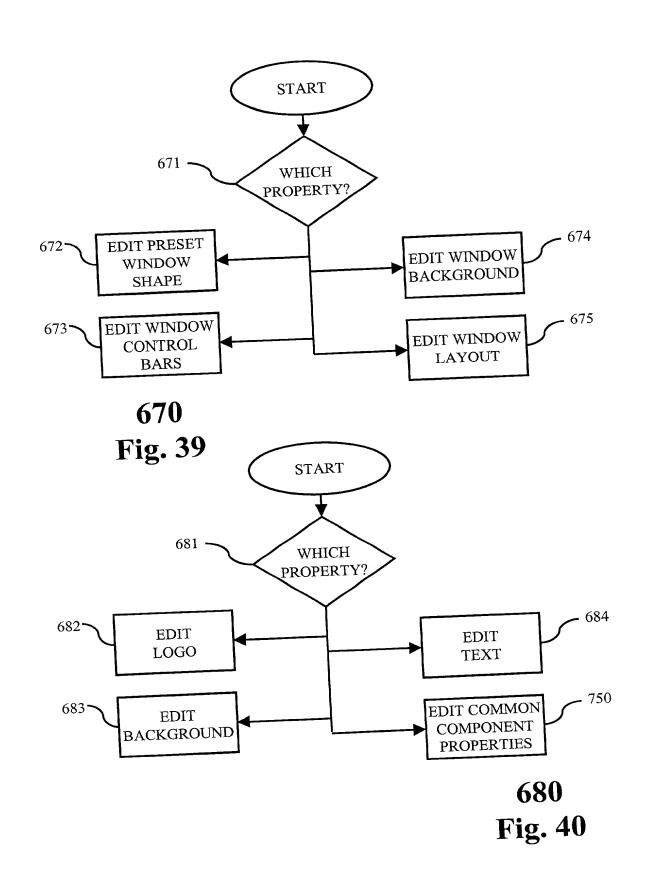
640 Fig. 35

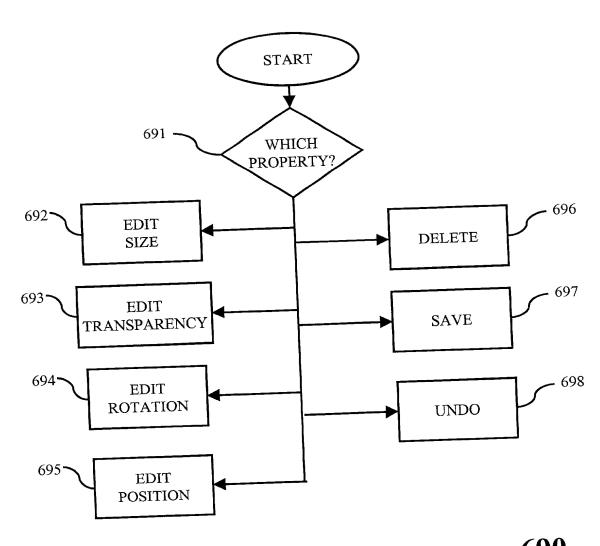


644 Fig. 36

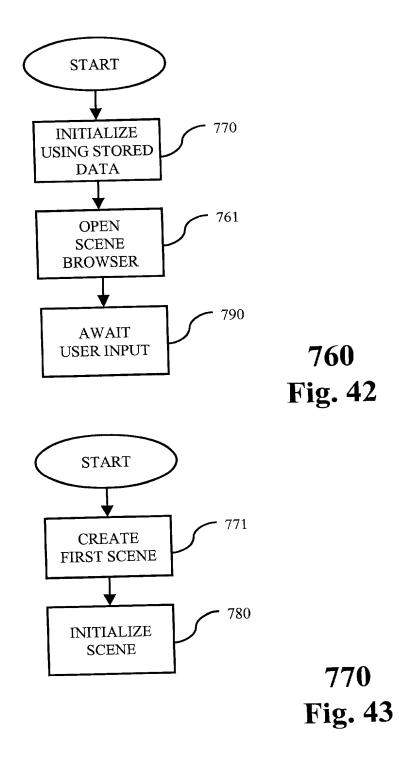


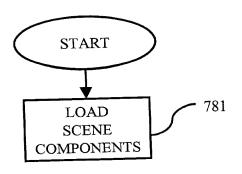
660 Fig. 38



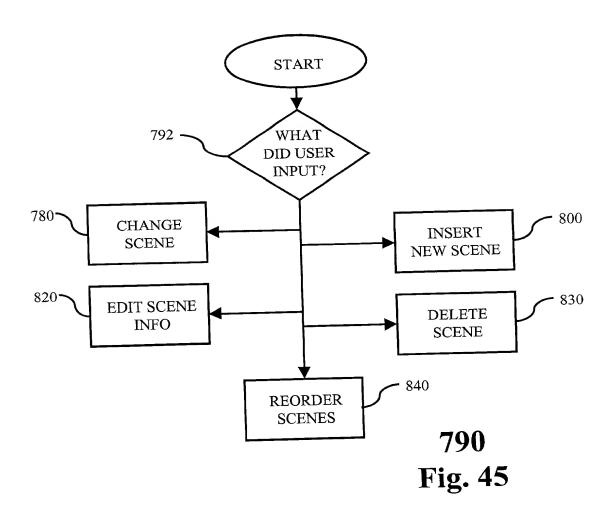


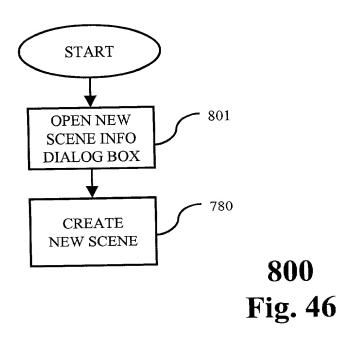
690 Fig. 41

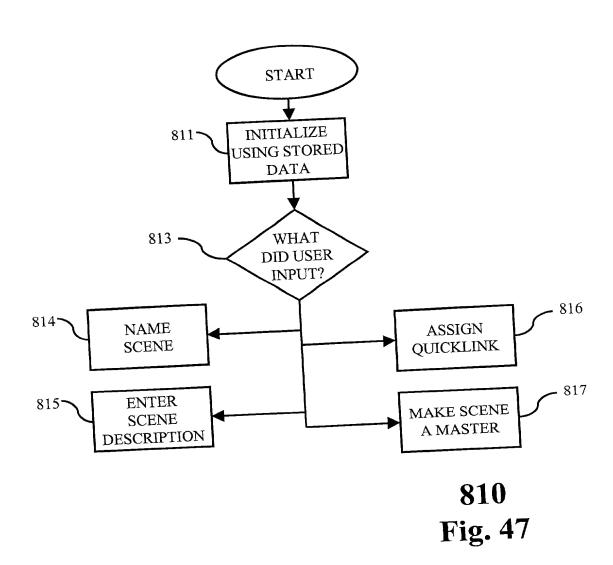


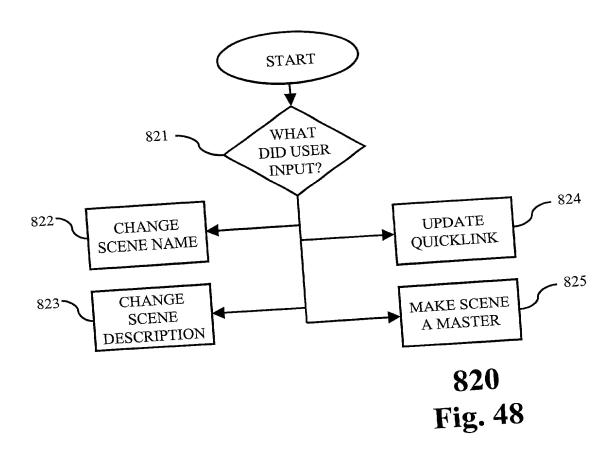


780 Fig. 44









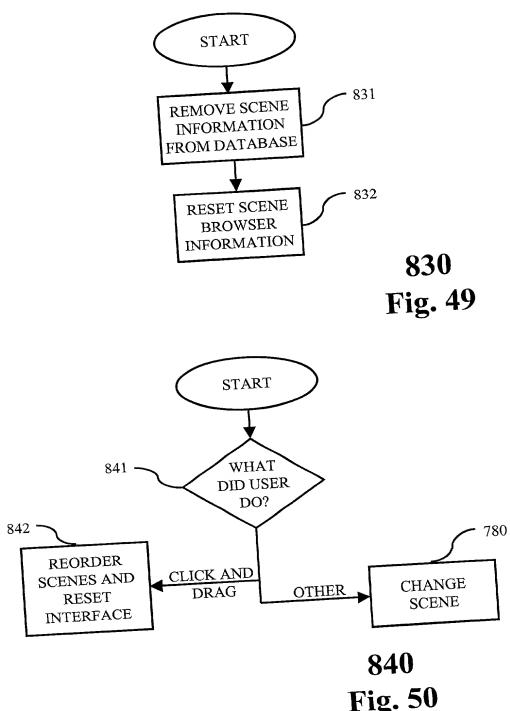
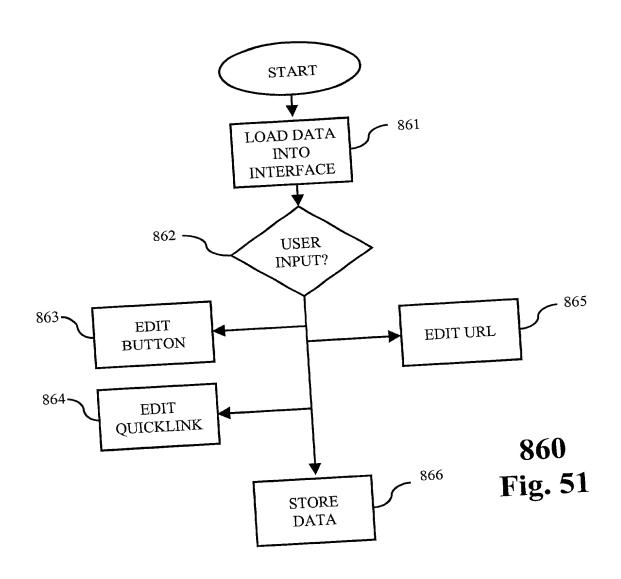


Fig. 50



870	Component Browser													
C1	Is a Component Folder selected?	1	Yes	No										
C2	Does the Selected Folder contain other Folders?				Yes	No								
СЗ	Does the Selected Folder contain Components?						Yes	No						
C4	Is a Component selected?								Yes	No				
C5	Is the selected Component dropped over the Workspace?										Yes	No		
C6	Is a previous Header selected?												Yes	No
A1	Add Header		х											
A2	Remove selected Header												х	
A3	Display selected Folder Name in Header		х											
A4	Hide previous List contents		х										х	
A5	Show selected List contents		х										х	
A6	Display Folder Icon with List entry(s)				Х									
A6	Display Draggable Icon with List entry(s)						х							
A7	Display Component Dragger bullseye								х					
A8	Load Component into Project										х			
	Disposition		C2	C6	С3	С3	C4	C1	C5	C4	Done	C1	C1	C1

Fig. 52 - Component Browser 870

871	Edit Size										
C1	Is a Preset Size selected?	 Yes	No								
C2	Is Size selected with the Slider?			Yes	No						
C3	Is Size value entered in the textfield?					Yes	No				
C4	Is the Return key pressed?							Yes	No		
A1	Set user-defined Size	 х		х				Х		 	
A2	Set default Size		Х		х		х				
	Disposition	Done	C2	Done	СЗ	C4	Done	Done	C1		
										 	 L

Fig. 53 – Edit Size 871

Edit Transparency												
Is a Preset Transparency selected?	Yes	No										
Is Transparency selected with the Slider?			Yes	No								
Is Transparency value entered in the textfield?					Yes	No						
Is the Return key pressed?							Yes	No				
Set user-defined Transparency	х		Х				х					
Set default Transparency		х		х		х						
Disposition	Done	C2	Done	C3	C4	Done	Done	C1				
	Is a Preset Transparency selected? Is Transparency selected with the Slider? Is Transparency value entered in the textfield? Is the Return key pressed? Set user-defined Transparency Set default Transparency	Is a Preset Transparency selected? Yes Is Transparency selected with the Slider? Is Transparency value entered in the textfield? Is the Return key pressed? Set user-defined Transparency X Set default Transparency	Is a Preset Transparency selected? Yes No Is Transparency selected with the Slider? Is Transparency value entered in the textfield? Is the Return key pressed? Set user-defined Transparency X Set default Transparency X	Is a Preset Transparency selected? Yes No Is Transparency selected with the Slider? Yes Is Transparency value entered in the textfield? Is the Return key pressed? Set user-defined Transparency X X Set default Transparency X	Is a Preset Transparency selected? Is Transparency selected with the Slider? Is Transparency value entered in the textfield? Is the Return key pressed? Set user-defined Transparency X X Set default Transparency X X	Is a Preset Transparency selected? Is Transparency selected with the Slider? Is Transparency value entered in the textfield? Yes Is the Return key pressed? Set user-defined Transparency X X Set default Transparency X X	Is a Preset Transparency selected? Is Transparency selected with the Slider? Is Transparency value entered in the textfield? Is the Return key pressed? Set user-defined Transparency X X X X	Is a Preset Transparency selected? Is Transparency selected with the Slider? Is Transparency value entered in the textfield? Is the Return key pressed? Yes No Yes No Yes Set user-defined Transparency X X X X Set default Transparency X X X X	Is a Preset Transparency selected? Is Transparency selected with the Slider? Is Transparency value entered in the textfield? Is the Return key pressed? Yes No Yes No Set user-defined Transparency X X X X Set default Transparency X X X X	Is a Preset Transparency selected? Yes No Is Transparency selected with the Slider? Yes No Is Transparency value entered in the textfield? Yes No Is the Return key pressed? Yes No Set user-defined Transparency X X X X Set default Transparency X X X X	Is a Preset Transparency selected? Yes No Is Transparency selected with the Slider? Yes No Is Transparency value entered in the textfield? Yes No Is the Return key pressed? Yes No Set user-defined Transparency X X X X X X X X X X X X X	Is a Preset Transparency selected? Yes No Is Transparency selected with the Slider? Yes No Is Transparency value entered in the textfield? Yes No Is the Return key pressed? Yes No Set user-defined Transparency X X X X Set default Transparency X X X X

Fig. 54 – Edit Transparency 872

873	Edit Rotation										
C1	Is a Preset Rotation selected?	Yes	No							 	
C2	Is Rotation selected with the Slider?			Yes	No						
C3	Is Rotation value entered in the textfield?					Yes	No				
C4	Is the Return key pressed?							Yes	No		
A1	Set user-defined Rotation	Х		X				х			
A2	Set default Rotation		х		х						
	Disposition	Done	C2	Done	C3	C4	Done	Done	C1		

Fig. 55 – Edit Rotation 873

874	Edit Position											
C1	Is default Position button pressed?	 Yes	No									
C2	Is Position changed with the draggable icon?			Yes	No							
C3	Is Position changed with the arrow keys?					Yes	No					
C4	Are Position values entered in the textfields?							Yes	No			
C5	Is Return/Enter pressed?									Yes	No	
Αl	Set user-defined Position			Х		Х				х		
A2	Set default Position	х			х		X		х			
	Disposition	Done	C2	Done	C3	Done	C4	C5	Done	Done	C1	

Fig. 56 - Edit Position 874

875	Edit Color											
C1	Is a Color swatch selected?	Yes	No									
C2	Is Brightness selected with the Slider?			Yes	No							
СЗ	Is Brightness value entered in the textfield?					Yes	No					
C4	Is the Return key pressed?							Yes	No			
Al	Set user-defined Color	х										
A2	Set default Color		Х									
A3	Set user-defined Brightness			х				х				
A3	Set default Brightness				х		x					
	Disposition	C2	C2	C3	C3	C4	Done	Done	C1			
					L			L	L	L	L	

Fig. 57 – Edit Color 875

876	Edit Selection									
C1	Is Selection selected?	Yes	No					 		
C2	Is Next/Previous arrow pressed?			Next	Prev	None				
A1	Set user-defined Selection	 х						 		
A2	Set default Selection					Х				
A3	Show next Selection			Х						
A4	Show previous Selection				х					
	Disposition	Done	C2	C1	C1	Done				

Fig. 58 – Edit Selection 876

877	Edit Content (for Paragraph component)												
C1	Is Textfield content set?	 Yes	No										
C2	Is Font selected?			Yes	No								
СЗ	Is Size selected?					Yes	No						
C4	Is Align selected?							Yes	No				
C5	Is Shape selected?									Yes	No		
C6	Is Apply pressed?											Yes	No
A1	Set user-defined Textfield content	 х											
A2	Set default Textfield content		Х										
A3	Set selected Font			х									
A4	Set default Font				Х								
A5	Set selected Size					х							
A6	Set default Size						х						
A7	Set selected Alignment							х					
A8	Set default Alignment								х				
A9	Set selected Shape									х			
A1	Set default Shape										х		
A11	Set attributes											Х	
	Disposition	C2	C2	C3	C3	C4	C4	C5	C5	C6	C6	Done	C1

Fig. 59 - Edit Content (for Paragraph components) 877

18	Edit QuickLink (for Button component)	 		\perp						-		-+	-	
士	Is QuickLink or URL selected?	QL	URI	L -	_	_						+		
	Is a URL entered in the Textfield?	<u> </u>	1_	- Y	es	No	Yes	No						
C3	Is a Scene selected?	 -	-	+	\dashv		163	-	New	Same				
C4	Is a Window selected?	 	+-	-			-	1	1		Yes	No		_
C5	Is Accept pressed?	 	+	1	_		-	+-	+	-				+
A1	Set selected Scene		+				X	+-	X	-	 		 	
A2	Set New Window		+				+	+-	+-	x				
A3	Set Same Window		-			-	+	+			х			\perp
A	4 Apply and save settings		_			+		'5 C	1 C:	5 C5	Done	C1	1	+
\vdash	Disposition		C3	C2	C4	C	1		-			士二		二

Fig. 60 – Edit QuickLink (for Button components) 878

79	Edit Selection (for Button component)	 			_						<u> </u>		
二		 Yes	No										
C1	Is a variation selected?	 		Yes	No	l					 	 	
C2	Is Button Label entered?	 	-			Yes	No						
СЗ	Is Accept pressed?	 					-	-	-	-	+-	-	1
	Set user-defined selection	x		\				-		+	+-	+	+
A1			x	1									+-
A2	Set default selection	 	+	x					\				+
A3	Set user-defined Button Label content	 		+	x	1	1						
A4	Set default Button Label content	 		-	+	 	1	#	+	+	7		+
A.		 	C2	C3	Don	e Don	e Ci						
	Disposition	 			+_								

Fig. 61 – Edit Selection (for Button components) 879

880	Edit Content (for Line Effects components)									
C1	Is Textfield content set?	Yes	No					 		
C2	Is Font selected?			Yes	No					
C3	Is Apply pressed?					Yes	No			
A1	Set user-defined Textfield content	 х						 		
A2	Set default textfield content		х							
A3	Set selected Font			х						
A4	Set default Font				х					
A5	Set attributes					х				
	Disposition	C2	C2	C3	C3	Done	C1			
}										

Fig. 62 – Edit Content (for Line Effects components) 880

881	Edit Soundtrack							 	
C1	Is Soundtrack selected?	Yes	No						
C2	Is Volume level set?			Yes	No				
С3	Volume On/Off?					On	Off		
Αî	Set default Soundtrack		х						
A2	Set Selected Soundtrack	х							
A3	Set default Volume level				х				
A4	Set selected Volume level			х					
A5	Play Soundtrack					х			
A6	Stop All Sounds						х		
	Disposition	C2	C2	C3	C3	Done	Done		

Fig. 63 – Edit Soundtrack 881

882	Edit User Assets									
Ci	Is a User Asset selected?	Yes	No							
C2	Is Asset Data selected?			Yes			No			
C3	Is Remove selected?				Yes		N	io		
C4	Is Upload selected?					Yes		No		
C5	Is Refresh selected?						Yes	N	o	
C6	Is Accept selected							Yes	No	
A1	Display icon of selected User Asset	х								
A2	Display icon of first User Asset		Х							
А3	Show/Hide Asset Data			х						
A4	Remove selected User Asset				х					
A5	Launch Upload Assets pop-up window					х				
A6	Reload User Asset information						х			
Α7	Set selected User Asset							x		
	Disposition	C2	C2	C3	Done	C1	Ci	Done	C1	

Fig. 64 – Edit User Assets 882

883	Edit Content (for Character Effects component)											
C1	Is Textfield Content set?	Yes	No									
C2	Is Font Selected?			Yes	No				 			
C3	Is Apply button pressed?					Yes	No					
A1	Set Textfield content	X										
A2	Set default Textfield content		х									
А3	Set selected Font			х								
A4	Set default Font				х							
A5	Apply settings					х						
	Disposition	C2	C2	C3	C3	Done	C1					
				L	L	L	L	L	 l	L	L	<u> </u>

Fig. 65 - Edit Content (for Character Effects components) 883

84	Edit	Content (for Movie components)	 			#=	#	Τ-	-+							1	1
			Yes	No									_	-	1-	-	1
		ovie selected?			Yes	N	·								-	+	7
C2	Is Pla	ay ON?	 		+		Y	es	No	\				 		+-	4
C3	Is Se	earch Speed set?	 	┼		+-	-			Rewind	FFwd	None					\dashv
C4	Rew	rind / Fast Forward pressed?	 	-				-					Yes	No	>		_
C5	Are	Textfield contents entered?	 -	+-		+	\dashv	\dashv		-					Ye	s N	0
C6	Is A	Apply pressed?	 	1	1	+	_			+	+	-	-	+-		1	7
A1	Se	t default Movie			×	_	-			+	+-	+-	+-	-			
A2		et Selected Movie	 X	-		_			-		+	-	+	_			
A:	3 P1	lay Movie	 			×	х		-		+	+					
A	4 S	top Movie	 	\dashv					+,	<u> </u>	+	1					
A	.5 5	Set default Search Speed	 	-+				x	+	-	1	_					
	16	Set selected Search Speed	 					-	+		(
	A7	Rewind Movie	 					-	+	_		х					
	A8	Fast Forward Movie	 					+-	+						х		
	A9	Set default Textfield contents	 				-	+	+	-						x	_
1	A1	Set selected Textfield contents				-	C	+-	24	C4	C5	C5	C5	C6	Done	Done	(
	A8 A9	Fast Forward Movie Set default Textfield contents															

Fig. 66 - Edit Content (for Movie components) 884

885	Edit Content (for Window components)										
C1	Is Window Title content set?	Yes	No							 	
C2	Is Textfield content set?			Yes	No						
C3	Is Apply pressed?					Yes	No				
A1	Set user-defined Window Title content	Х									
A2	Set default Window title content	 	х								
A3	Set user-defined textfield content			х							
A4	Set default textfield content				х						
A6	Save and display settings					х					
	Disposition	C2	C2	С3	С3	Done	C1				
			L					L			L

Fig. 67 - Edit Content (for Window components) 885

886	Edit Content (for Header component)											
Cl	Is Textfield content set?	Yes	No									
C2	Is Font selected?	 165	140	Yes	No					 		
	is Font selected?	 		res	No					 		
C3	Is Size selected?	 				Yes	No			 		
C4	Is Apply pressed?							Yes	No	 		
A1	Set user-defined textfield content	 X				ļ		ļ		 		
A2	Set default textfield content		Х									
A3	Set selected Font		!	х								
A4	Set default Font				х							
A5	Set selected Size					х						
A6	Set default Size						х					
A7	Set attributes							Х				
	Disposition	 C2	C2	C3	C3	C4	C4	Done	Cl			
							L				1	

Fig. 68 – Edit Content (for Header components) 886

887	Scale/Position Handles													
C1	Is a component selected in the Layers Browser?	Ye	:S	No										
C2	Is the hit area selected?				Yes	No								
С3	Is a corner handle selected?						Yes	No						
C4	Is the left or right handle selected?								Yes	No				
C5	Is the top or bottom handle selected?										Yes	No		
C6	Is the component QuickLinkable?												Yes	No
A1	Set user-defined component	,												
A2	Set default component (Layer 1 component)			x										
А3	Reposition component				х									
A4	Resize X-scale of component						x		х					
A5	Resize Y-scale of component						х				x			
A6	Show QuickLink information												х	
A7	Hide QuickLink information													Х
	Disposition		2	C2	C3	C3	C6	C4	C6	C5	C6	C6	Done	Done

Fig. 69 - Scale/Position Handles 887

888	Start Depth Browser Depth Browser			,		 		
C1	Is Depth Browser open?	N	io	Yes	<u>-</u>		1	+
C2	Open tab clicked?	No	Yes					+
A1	Open Depth Browser		1					-
A2	Load component list from current scene		1					T
A3	Display components in top to bottom (front to back) order		1	1				1
A4	Wait for user input 889		1	1				
	DISPOSITION	C1	C1	Done				1

Fig. 70 - Start Depth Browser 888

889	Wait User Input Depth Browser						
C1	User Input?	Drag In New Comp					
A1	Place new component on top	1					
A2	Change depth of component being dragged (cannot drag a locked component)		1				
A3	Toggle component's visibility			1			
A4	Toggle component lock				1		
A5	Apply Unified GUI interfaces to selected component (871 to 887 as applicable)					1	
A6	Reload component list from current scene	1	1				
A7	Redisplay components in top to bottom (front to back) order	1	1	1			
A8	Close Depth Browser Panel						1
	DISPOSITION	Cl	C1	C1	C1	C1	Done

Fig. 71 - Wait User Input 889

	t :
	~
	1, 181 1
-	(tard)
	£
:	ä
**	
-	H
~ 3	
- 2	, con
ž.	2000
-2	

89									
	Opening and Closing					222277227			
C1	Is window being opened?	Y	N						
C2	Is (new) scene selected?			Y	N				
C3	Is window being closed?					Y	N		
C4	Is mouse over the window?							Y	N
A1	Open Window	1							
A2	Load objects from scene			1					
A3	Close Window					1			
A4	Select Object (891)							1	
	DISPOSITION	C2	Cl	C3	C3	C1	C4	C2	C2

Fig. 72 – Layers Window Opening and Closing 890

891	Layers Window Select Object								
C1	Is mouse over an unselected, unlocked object?	Y	И						
C2	Was mouse clicked?			Y	N				
C3	Is mouse over a selected, unlocked object?					Y	N		
C4	Was mouse clicked?							Y	N
Al	Highlight object line in orange	1							
A2	Unselect previously selected object, if any Unhighlight object back to gray Remove arrows from life bar			1					
А3	Select new object, Highlight object line in green, Place arrows on life bar			1					
A4	Edit Object (893)			1				1	
A5	Select Scene Time (892)							1	1
	DISPOSITION	C2	C3	D	C3	C4	D	D	D

Fig. 73 – Select Object 891

892	Layers Window							
	Select Scene Time						·	
C1	Is mouse over total scene time?	Y	N					
C2	Was mouse clicked?			Y	N			
C3	Was valid time entered?					Y	N	
A1	Pop up Scene Time entry window	1						
A2	Accept user typein of scene time			1			1	
A3	Process new scene time Repaint tickmarks in window header Repaint object life bars					1		
A4	Remove Scene Time entry window				1	1		
Section of the sectio	DISPOSITION	C2	D	C3	D	D	C3	

Fig. 74 – Select Scene Time 892

893	Layers Window Edit Object								
C1	Was mouse clicked?	Y	N						
C2	Is drag being performed?			Y	N				
C3	Was visibility button clicked?					Y	N		
C4	Was lock button clicked?							Y	N
A1.	Process Drag (894)			1					
A2	Process Vis Button (895)					1			
A3	Process Lock Button (896)							1	
	DISPOSITION	C2	ם	D	C3	D	C4	D	D

Fig. 75 – Edit Object 893

89	4 Layers Window							
	Process Drag							
C	1 Is object being dragged vertically?	Y	N					
C	Is object life bar left arrow being dragged?			Y		N		
C	3 Is object life bar right arrow being dragged?				Y	1	7	
C	Is object life bar as a whole being dragged?					Y	И	
A	1 Move object to new front to back display position	1						
A	2 Redisplay scene in correct order	1						
A	3 Change object start time and duration Resize life bar accordingly			1				
A	4 Change object end time and duration Resize life bar accordingly				1			
A	5 Move object start and end times in tandem Duration remains unchanged Reposition life bar accordingly					1		
	DISPOSITION	D	D	D	D	D	D	

Fig. 76 – Process Drag 894

895	Layers Window Process Vis Button					
Cl	Was object visible?	Y	N			
Al	Make object invisible	1				
A2	Gray out button	1				
A3	Make object visible		1			
A4	Turn button green		1			
	DISPOSITION	D	D			

Fig. 77 – Process Visibility Button 895

.6356	1
è	ā
÷	1,2
÷	
ŧ	ß
	IJ
	Į.
contra	dina
ž	
4445	373 <u>.</u>
2221212	ij
.03340.	
÷	
-tout-	7
E.A.	ı.i.

896	Layers Window Process Lock Button				 	
C1	Was object locked?	Y	N			
A1	Unlock object	1				
A2	Set gray dot for button	1				
A3	Lock object		1			
A4	Set gray lock icon for button		1			
	DISPOSITION	D	D			

Fig. 78 – Process Lock Button 896

900	Asset Manager				
C1	Enter	Yes			
A1	Load Asset Manager Components (1100)	1			T
A2	Init all Asset Manager Components	1			
A3	Start Idle Loop (901)	1			
	DISPOSITION	Done			

Fig. 79 – Asset Manager 900

901	Idle Loop						
C1.	Enter at frame 1	Yes					
C2	Does frame number equal control variable?		N	б	Yes		
C3	Is this the last frame?		No	Yes		 	
A1	Advance to next frame		1				
A2	Call Load Check (920)	1	1				
A3	Call Request Scanner (910)	1					
A4	Jump back to frame 1			1	1		
	DISPOSITION	C2	C2	C1	C1		

Fig. 80 – Idle Loop 901

910	Request Scanner							
C1	Enter	Yes						
C2	Are there requests to process?		No	Yes				
L3	Loop through all scheduled requests			Ent Loop Ex			Exit	
C4	More to process?				Yes	No		
A1	Call Scheduler (930)	1						
A2	Pick Request				1			
A3	Process Request (911)				1			
	DISPOSITION	C2	Done	L3 Loop	L3 Loop	L3 Exit	Done	

Fig. 81 – Request Scanner 910

911	Request Scanner - continued Process Request								
C1	General request type?	Reg	Load	Play	Posn	State	Loc	Glob Vol	0 he
A1	Call Registration Request Processor (940)	1							
A2	Call Load Request Processor (950)		1						
A3	Call Play Request Processor (960)			1					
A4	Call Position Request Processor (970)				1				
A5	Call State Request Processor (980)					1			
A6	Call Local Volume Request Processor (990)						1		
A7	Call Global Volume Request Processor (1000)							1	
A8	Return error response to requestor								
	DISPOSITION	Done	Done	Done	Done	Done	Done	Done	Do

Fig. 82 - Process Request 911

920	Load Check							
L1	Loop through all clips being loaded	Ent		Loc	pp		Exit	
C2	More clips to check?		Yes	No				
C3	Are all frames loaded?				Yes	No		
A1	Pick clip		1					
A2	Get frames loaded for clip		1					
A3	Set slot identification into clip				1			
A4	Mark clip load finished in check list				1			
A5	Set clip state to loaded				√			l
A6	Remove finished clips from check list						1	
	DISPOSITION	L1 Loop	C3	L1 Exit	L1 Loop	L1 Loop	Done	

Fig. 83 – Load Check 920

930	Scheduler					 	 _
C1	Enter	Yes			<u>.</u>		1
C2	Are intensive task(s) in progress?		Yes	No			
A1	Transfer requests from reschedule list to schedule list	1					
A2	Set reschedule list empty	1					
A3	Schedule Intensive Task Request (931)		1				
A4	Process Request List (932)			1			
A5	Empty request list			1			
	DISPOSITION	C2	Done	Done			

Fig. 84 – Scheduler 930

931	Scheduler Schedule Intensive Task Request				 	 	
C1	Is there an internal request for an intensive task?	Yes	No				
C2	Is there a request from an intensive task?		Yes	No			
A1	Add Intensive Task request to schedule list	1	1				
	DISPOSITION	Done	Done	Done			

Fig. 85 – Schedule Intensive Task 931

Scheduler Process Request List			r	Т	 -r		 .
Loop through request list	Ent			Loop			Exit
More slots in request list?		Yes	No				
Is there an internal request in the slot?				Yes	N	0	
Is there an external request in the slot?					Yes	No	
Pick slot		1					
Add request to schedule list				1	1		
DISPOSITION	L1 Loop	C3	L1	L1	L1 Loon	L1 Loor	Done
	Process Request List Loop through request list More slots in request list? Is there an internal request in the slot? Is there an external request in the slot? Pick slot Add request to schedule list	Process Request List Loop through request list More slots in request list? Is there an internal request in the slot? Is there an external request in the slot? Pick slot Add request to schedule list DISPOSITION L1	Process Request List Loop through request list More slots in request list? Is there an internal request in the slot? Is there an external request in the slot? Pick slot Add request to schedule list DISPOSITION L1	Process Request List Loop through request list More slots in request list? Yes No Is there an internal request in the slot? Is there an external request in the slot? Pick slot Add request to schedule list DISPOSITION L1 L1	Process Request List Loop through request list More slots in request list? Is there an internal request in the slot? Is there an external request in the slot? Pick slot DISPOSITION L1 L1 L1	Process Request List Loop through request list More slots in request list? Is there an internal request in the slot? Is there an external request in the slot? Pick slot Add request to schedule list DISPOSITION L1 L1 L1 L1	Process Request List Loop through request list More slots in request list? Is there an internal request in the slot? Is there an external request in the slot? Pick slot Add request to schedule list DISPOSITION L1 L1 L1 L1 L1

Fig. 86 – Process Request List 932

940	Registration Request Processor							
C1	Request type?	Reg	Re reg	Un (Query Reg	No Req	Oth	
A1	Process Register (941)	1						
A2	Process Reregister (942)		1					
A3	Process Unregister (943)			1				
A4	Process Query Register (944)				1			
A5	Ignore No Request					1		
A6	Return error response to requestor						1	
	DISPOSITION	Done	Done	Done	Done	Done	Done	

Fig. 87 – Registration Request Processor 940

941	Registration Request Processor Process Register			1			 	_
C1	Enter	Yes						+
C2	Any argument errors?		No	Yes	•			1
A1	Assign slot and initialize it	1						
A2	Get arguments	1						
A3	Assign arguments to the slot including: name, type, URL, instance name, attributes, permissions, parent, obey, URLs for cycle and bandwidth		J					
A4	Set status as registered		1					
A5	Return OK response to requestor		1					
A6	Return error response to requestor			1				
	DISPOSITION	C2	Done	Done				_

Fig. 88 – Process Register 941

942	Registration Request Processor Process Reregister				Т		 	_
C1	Is clip currently registered?	Ye	S	No				
C2	Do permissions allow reregistration?	No	Yes					1
C3	Any argument errors?				No	Yes		
A1	Assign slot and initialize it			1				1
A2	Get arguments		1	1				
А3	Assign arguments to the slot including: name, type, URL, instance name, attributes, permissions, parent,				1			
A4	Set status as registered				1			
A5	Return OK response to requestor				1			
A6	Return error response to requestor	1				1		
	DISPOSITION	Done	C3	C3	Done	Done		_

Fig. 89 – Process Reregister 942

943	Registration Request Processor Process Unregister						
C1	Is clip currently registered?		Ye	s		No	
C2	Do permissions allow unregistration?	No		Yes			
C3	Is clip playing?		Ио	Ye	s		
C4	Is clip loaded?		No	Yes			
A1	Stop clip play				1		
A2	Unload clip			1	1		
A3	Set status as unregistered		1	1	1		
A4	Return OK response to requestor		1	1	1		
A 5	Return error response to requestor	1				1	
	DISPOSITION	Done	Done	Done	Done	Done	

Fig. 90 – Process Unregister 943

944	Registration Request Processor								
	Process Query Register							т	
C1	Query by slot?	Yes		N	0				
C2	Query by name?		Yes		No				
C3	Query by instance name?			Yes	N	0			
C4	Query by URL?				Yes	No			
C5	Was clip found?						Ye	es	ľ
C6	Is clip registered?						Yes	No	
A1	Find slot	1							
A2	Find clip by name		1						
A3	Find clip by instance name			1					
A4	Find clip by URL				1				
A5	Return slot and True response to reques	tor						1	
A6	Return False response to requestor							1	
A7	Return error response to requestor					1			
	DISPOSITION	C5	C5	C5	C5	Dona	Done	Done	 -

Fig. 91 – Process Query Register 944

Request type?	Load		Query Load		yOth			
Process Load (951)	1							
Process Unload (952)		1						-
Process Query Load (953)			1			·		
Process Query Frames Loaded (954)				1				
Return error response to requestor					1			
DISPOSITION	Done	Done	Done	Done	Done			
	Process Load (951) Process Unload (952) Process Query Load (953) Process Query Frames Loaded (954) Return error response to requestor	Process Load (951) Process Unload (952) Process Query Load (953) Process Query Frames Loaded (954) Return error response to requestor DISPOSITION	Process Load (951) Process Unload (952) Process Query Load (953) Process Query Frames Loaded (954) Return error response to requestor DISPOSITION	Process Load (951) Process Unload (952) Process Query Load (953) Process Query Frames Loaded (954) Return error response to requestor DISPOSITION	Process Load (951) Process Unload (952) Process Query Load (953) Process Query Frames Loaded (954) Return error response to requestor DISPOSITION	Process Load (951) Process Unload (952) Process Query Load (953) Process Query Frames Loaded (954) Return error response to requestor	Process Load (951) Process Unload (952) Process Query Load (953) Process Query Frames Loaded (954) Return error response to requestor DISPOSITION	Process Load (951) Process Unload (952) Process Query Load (953) Process Query Frames Loaded (954) Return error response to requestor DISPOSITION

Fig. 92 – Load Request Processor 950

951	Load Request Processor Process Load				·				
C1	Is target clip registered?		Yes		No				
C2	Is bandwidth hogging in effect?	Υe	es	No					
C3	Is requestor clip a bandwidth hog?	Yes	No						
C4	Any argument errors?					Yes		No	-
C5	Do permissions allow load?						Υe	es	N
C6	Requestor supplying destination instance?						No	Yes	
A1	Get arguments	1		✓					
A2	Put request onto reschedule list		1						
A3	Create local instance at specified depth on the specified level						1		
A4	Pick target clip variant (if any) based on cycle and bandwidth environment (Cycle Category and Bandwidth			•			1	1	
A5	Initiate target clip load						1	1	
A6	Add target clip to load list for Load Check (920)						1	1	
A7	Return OK response to requestor						1	1	
A8	Return error response to requestor				1	1			•
	DISPOSITION	C4	Done	C4				Done	

Fig. 93 – Process Load 951

952	Load Request Processor Process Unload						r	
C1	Is clip loaded?		Yes		No			
C2	Do permissions allow load?	Ye	es	No				\mid
C3	Is clip playing?	Yes	No					
A1	Stop clip play	1						+
A2	Propagate unload to clip's children that obey	1	1					1
A3	Initiate target clip unload	1	1					Ī
A4	Set clip state as unloaded	1	1					+
A5	Return OK response to requestor	1	1					\dagger
A6	Return error response to requestor			1	1			T
	DISPOSITION	Done	Done	Done	Done			

Fig. 94 – Process Unload 952

953	Load Request Processor Process Query Load					 	
C1	Is clip loaded?	Yes	No				
A1	Return True response to requestor	1					
A2	Return False response to requestor		1				
	DISPOSITION	Done	Done				

Fig. 95 – Process Query Load 953

95 4	Load Request Processor Process Query Load Frame				·····	
C1	Is clip loading or loaded?	Yes	No			
A1	Return frames loaded count to requestor	1				
A2	Return error response to requestor		1			
	DISPOSITION	Done	Done			

Fig. 96 - Process Query Frames Loaded 954

960	Play Request Processor							
C1	Request type?	Play	Paus		Query Play	Quer Frm	yOth	
A1	Process Play (961)	1						
A2	Process Pause (962)		1					
А3	Process Stop (963)			1				
A4	Process Query Play (964)				1			
A5	Process Query Frame (965)					1		
A6	Return error response to requestor						1	
	DISPOSITION	Done	Done	Done	Done	Done	Done	

Fig. 97 – Play Request Processor 960

961	Play Request Processor Process Play				 T	-	T	
C1	Is clip loaded?	Yes		No				T
C2	Do permissions allow play?	Yes	No					T
A1	Call clip's play routine	1						+
A2	Propagate play to clip's children that obey	1						1
А3	Set clip state as playing	1						
A4	Return OK response to requestor	1						1
A5	Return error response to requestor		1	1				
	DISPOSITION	Done	Done	Done				

Fig. 98 – Process Play 961

962	Play Request Processor Process Pause				1		1	
C1	Is clip playing?	Υe	 es	No				+
C2	Do permissions allow pause?	Yes	No			:		
A1	Call clip's pause routine	1						
A2	Propagate pause to clip's children that obey	1						
A3	Set clip state as paused	•						
A4	Return OK response to requestor	1						
A 5	Return error response to requestor		1	1				
	DISPOSITION	Done	Done	Done				

Fig. 99 - Process Pause 962

963	Play Request Processor Process Stop		ı	1 1		
Cl	Is clip playing or paused?	Ye	es	No		
C2	Do permissions allow stop?	Yes	No			
A1	Call clip's stop routine	1				
A2	Propagate stop to clip's children that obey	1				
А3	Set clip state as stopped	✓				
A4	Return OK response to requestor	1				
A5	Return error response to requestor		1	1		
	DISPOSITION	Done	Done	Done		

Fig. 100 - Process Stop 963

964	Play Request Processor Process Query Play					
C1	Is clip playing?	Yes	No			
A1	Return True response to requestor	1				
A2	Return False response to requestor		1			
	DISPOSITION	Done	Done			

Fig. 101 - Process Query Play 964

965	Play Request Processor Process Query Play Frame	-	•			1	
C1	Is clip playing, paused or stopped?	Yes	No				
A1	Return current play frame to requestor	1					
A2	Return OK response to requestor	1					
A3	Return zero as play frame to requestor	-	1				
A4	Return error response to requestor		1				
	DISPOSITION	Done	Done				

Fig. 102 – Process Query Play Frame 965

970	Position Request Processor						
C1	Request type?	FF	1	Query Rew	Oth		
A1	Process Fast Forward (971)	1					
A2	Process Rewind (972)		1				
А3	Process Query Rewound (973)			1			
A4	Return error response to requestor				1		
	DISPOSITION	Done	Done	Done	Done		

Fig. 103 – Position Request Processor 970

971	Position Request Processor Process Fast Forward												
C1	Is clip loaded?	Y€	Yes										
C2	Do permissions allow fast forward?	Yes	No						-				
A1	Call clip's fast forward routine	1							Ŧ				
A2	Propagate fast forward to clip's children that obey	1							+				
A3	Return OK response to requestor	1											
A4	Return error response to requestor		1	1					\dagger				
	DISPOSITION	Done	Done	Done					+				

Fig. 104 – Process Fast Forward 971

972	Position Request Processor Process Rewind											
C1	Is clip loaded?	Ye	es	No								
C2	Do permissions allow rewind?	Yes	No									
A1	Call clip's rewind routine	1										
A2	Propagate rewind to clip's children that obey	1										
A3	Return OK response to requestor	1										
A4	Return error response to requestor		1	1								
	DISPOSITION	Done	Done	Done								

Fig. 105 – Process Rewind 972

973	Position Request Processor Process Query Rewound				
C1	Is clip at first frame?	Yes	No		
A1	Return True response to requestor	1			
A2	Return False response to requestor		1		
	DISPOSITION	Done	Done		

Fig. 106 - Process Query Rewound 973

987	State Request Processor								
C1	Request type?	Cyc Pig On	1 -	BW Hog On		Query State		Qry BW Hig	Ot
A1	Process Cycle Pig On (981)	1							
A2	Process Cycle Pig Off (982)		1						
A3	Process Bandwidth Hog On (983)			1					
A4	Process Bandwidth Hog Off (984)				1				
A5	Process Query State (985)					1			
A5	Process Query Cycle Pig (986)						1		
A5	Process Query Bandwidth Hog (987)							1	
A6	Return error response to requestor								•
	DISPOSITION	Done	Done	Done	Done	Done	Done	Done	Do

Fig. 107 - State Request Processor 980

981	State Request Processor Process Cycle Pig On							
C1	Is clip loaded?	Yes	No					
C2	Any argument errors?			Yes	No			
C3	Are sufficient cycles available?				Yes	No		
A1	Get arguments	1						
A2	Deduct clip requirements from cycles available			_	1			
A3	Add clip to intensive task list				1			
A4	Return OK response to requestor				1			
A 5	Return error response to requestor		1	1		1		
	DISPOSITION	C2	Done	Done	Done	Done		

Fig. 108 – Process Cycle Pig On 981

982	State Request Processor Process Cycle Pig Off				 -	 	
C1	Is clip loaded?	Yes		No		-	
C3	Is clip on intensive task list?	Yes	Мо				
A1	Remove clip from intensive task list	1					
A2	Restore clip requirements to cycles available	1		-			
A3	Return OK response to requestor	1					
A4	Return error response to requestor		1	1			
	DISPOSITION	Done	Done	Done			

Fig. 109 – Process Cycle Pig Off 982

983	State Request Processor Process Bandwidth Hog On							
C1	Is clip loaded?	Yes	No					
C2	Any argument errors?			Yes	N	0		1
C3	Is sufficient bandwidth available?				Yes	Мо		+
A1	Get arguments	1						
A2	Deduct clip requirements from bandwidth available				1			
A3	Add clip to high bandwidth task list				1			
A4	Return OK response to requestor				1			
A5	Return error response to requestor		1	1		1	<u> </u>	
	DISPOSITION	C2	Done	Done	Done	Done		

Fig. 110 – Process Bandwidth Hog On 983

984	State Request Processor Process Bandwidth Hog Off					 r	
C1	Is clip loaded?	Υe	es	No			
C3	Is clip on high bandwidth list?	Yes	No				
A1	Remove clip from high bandwidth task	1			-		
A2	Restore clip requirements to bandwidth available	1					
A3	Return OK response to requestor	1					
A4	Return error response to requestor		1	1			
	DISPOSITION	Done	Done	Done			

Fig. 111 - Process Bandwidth Hog Off 984

985	State Request Processor Process Query State							
C1	Is clip loaded?	Yes	ИО					
C2	Is clip on intensive task list?			Yes	No			
C3	Is clip on high bandwidth task list?					Yes	No	
A1	Return clip state to requestor	1						
A2	Return Intensive Task True response to requestor			1				
A3	Return Intensive Task False response to requestor				1			
A4	Return High Bandwidth Task True response to requestor					1		
A5	Return High Bandwidth Task False response to requestor						1	
A6	Return OK response to requestor					1	1	
A7	Return error response to requestor		1					
	DISPOSITION	C2	Done	С3	С3	Done	Done	

Fig. 112 - Process Query State 985

986	State Request Processor Process Query Cycle Pig			 				
Cl	Is any clip on intensive task list?	Yes	No					
A1	Return True response to requestor	1						
A2	Return cycles available to requestor	1						
А3	Return False response to requestor		1					
		T						
	DISPOSITION				}	1		
		Done	Done	 L				
				1	ì	1	!	1 _ 1

Fig. 113 – Process Query Cycle Pig 986

State Request Processor Process Query Bandwidth Hog								
Is any clip on high bandwidth task list?	Yes	No						
Return True response to requestor	1							
Return bandwidth available to requestor	1							
Return False response to requestor		1						
DISPOSITION	Done	Done						
	Process Query Bandwidth Hog Is any clip on high bandwidth task list? Return True response to requestor Return bandwidth available to requestor Return False response to requestor D I S P O S I T I O N	Process Query Bandwidth Hog Is any clip on high bandwidth task list? Return True response to requestor ✓ Return bandwidth available to requestor Return False response to requestor D I S P O S I T I O N	Process Query Bandwidth Hog Is any clip on high bandwidth task list? Return True response to requestor Return bandwidth available to requestor ✓ Return False response to requestor ✓	Process Query Bandwidth Hog Is any clip on high bandwidth task list? Return True response to requestor Return bandwidth available to requestor Return False response to requestor	Process Query Bandwidth Hog Is any clip on high bandwidth task Yes No list? Return True response to requestor Return bandwidth available to requestor Return False response to requestor	Process Query Bandwidth Hog Is any clip on high bandwidth task list? Return True response to requestor Return bandwidth available to requestor ✓ Return False response to requestor ✓ D I S P O S I T I O N	Process Query Bandwidth Hog Is any clip on high bandwidth task Yes No list? Return True response to requestor	Process Query Bandwidth Hog Is any clip on high bandwidth task list? Return True response to requestor Return bandwidth available to requestor Return False response to requestor

Fig. 114 – Process Query Bandwidth Hog 987

990	Local Volume Request Processor						
C1	Request type?	Set Loc Vol	Loc Vol On	Loc Vol Off	Query Loc Vol	Oth	
A1	Process Set Local Volume (991)	1					
A2	Process Turn Local Volume On (992)		1				
А3	Process Turn Local Volume Off (993)			1			
A4	Process Query Local Volume (994)				1		
A5	Return error response to requestor					1	
	DISPOSITION	Done	Done	Done	Done	Done	

Fig. 115 – Local Volume Request Processor 990

991	Local Volume Request Processor Process Set Local Volume							
C1	Is clip loaded?	Ye	es	No				
C2	Do permissions allow local volume control?	Yes	No					
C3	Is Global Volume ON?				Ye	es	No	
C4	Is Local Volume ON?				Yes	No		
Al	Get volume argument	1						
A2	Call clip's set sound volume routine		,		1			
А3	Save sound volume in clip's slot				1	1	1	
A5	Return OK response to requestor				1	1	1	
A6	Return error response to requestor		1	1				
	DISPOSITION	C3	Done	Done	Done	Done	Done	

Fig. 116 – Process Set Local Volume 991

992	Local Volume Request Processor Process Turn Local Volume On					,	
Cl	Is clip loaded?		Yes		No		
C2	Do permissions allow local volume control?	Υe	es	Мо			
C3	Is Global Volume ON?	Yes	No				
A1	Call clip's set sound volume routine	1					-
A2	Set volume ON in clip's slot	1	1				
А3	Propagate volume ON to clip's children that obey	1	1				
A4	Return OK response to requestor	1	1				
A5	Return error response to requestor			1	1		
	DISPOSITION	Done	Done	Done	Done		

Fig. 117 – Process Local Volume On 992

993	Local Volume Request Processor Process Turn Local Volume Off	,				 	
C1	Is clip loaded?		Yes	L	No		
C2	Do permissions allow local volume control?	Ye	es	No			
С3	Is Global Volume ON?	Yes	No				
A1	Call clip's set sound volume routine	1					
A2	Set volume OFF in clip's slot	1	1				
A3	Propagate volume OFF to clip's children that obey	1	1				
A4	Return OK response to requestor	J	1				
A5	Return error response to requestor			1	1		
	DISPOSITION	Done	Done	Done	Done		

Fig. 118 - Process Local Volume Off 993

Local Volume Request Processor Process Query Local Volume								
Is clip loaded?	Yes	No						
Return clip's local sound volume to requestor	1							
Return clip's on/off status to requestor	1							
Return OK response to requestor	1							
Return error response to requestor		1						
DISPOSITION	Done	Done						
	Process Query Local Volume Is clip loaded? Return clip's local sound volume to requestor Return clip's on/off status to requestor Return OK response to requestor Return error response to requestor	Process Query Local Volume Is clip loaded? Return clip's local sound volume to requestor Return clip's on/off status to requestor Return OK response to requestor Return error response to requestor DISPOSITION	Process Query Local Volume Is clip loaded? Return clip's local sound volume to requestor Return clip's on/off status to requestor Return OK response to requestor Return error response to requestor	Process Query Local Volume Is clip loaded? Return clip's local sound volume to requestor Return clip's on/off status to requestor Return OK response to requestor Return error response to requestor	Process Query Local Volume Is clip loaded? Return clip's local sound volume to requestor Return clip's on/off status to requestor Return OK response to requestor Return error response to requestor	Process Query Local Volume Is clip loaded? Return clip's local sound volume to requestor Return clip's on/off status to requestor Return OK response to requestor Return error response to requestor	Process Query Local Volume Is clip loaded? Return clip's local sound volume to requestor Return clip's on/off status to requestor Return OK response to requestor Return error response to requestor	Process Query Local Volume Is clip loaded? Return clip's local sound volume to requestor Return clip's on/off status to requestor Return OK response to requestor Return error response to requestor

Fig. 119 – Process Query Local Volume 994

1000	Global Volume Request Processor							
C1	Request type?	Set	Gbl	Gbl (Query	Oth		1
		Gbl	Vol	Vol	Gbl			}
		Vol	On	Off	Vol		 	1
A1	Process Set Global Volume (1001)	1						-
A2	Process Turn Global Volume On (1002)		1					
А3	Process Turn Global Volume Off (1003)			1				_
A4	Process Query Global Volume (1004)				1			~
A5	Return error response to requestor					J		_
	DISPOSITION						 	_
		Done	Done	Done	Done	Done	 	_

Fig. 120 - Global Volume Request Processor 1000

1001	Global Volume Request Processor Process Set Global Volume	,	1	,		 -	 	
C1	Do permissions allow global volume control?	Yes	No					
C2	Is Global Volume ON?			Yes	No			
A1	Get volume argument and convert to the fraction of the maximum volume (between 0.0 and 1.0)	1						
A2	Save global volume and fraction	1						
АЗ	Process Turn Global Volume On (1002) to invoke new volume level			1				
A4	Return OK response to requestor			1	1			
A5	Return error response to requestor		1					_
	DISPOSITION	C2	Done	Done	Done			

Fig. 121 – Process Set Global Volume 1001

1002	Global Volume Request Processor											
	Process Turn Global Volume On											
C1	Do permissions allow global volume control?	Yes	No									
L2	Loop through all clips			Ent	Loop				Ex			
C3	More clips?				Yes	No						
C4	Is clip local volume ON?						Yes	No				
A1	Set global sound volume ON	1										
A2	Get next clip				1							
A3	Call clip's set sound volume routine (with clip's volume level argument)						1					
A4	Return OK response to requestor								•			
A5	Return error response to requestor		1									
	DISPOSITION	L2 Ent	Done	L2	C4	L2	L2 Loop	L2	Do			

Fig. 122 - Process Global Volume On 1002

1003	Global Volume Request Processor Process Turn Global Volume Off					1			,
Cl	Do permissions allow global volume control?	Yes	No						
L2	Loop through all clips			Ent		Lo	op		Ex
C3	More clips?				Yes	No			
C4	Is clip local volume ON?						Yes	No	
A1	Set global sound volume OFF	1							
A2	Get next clip				1				
A3	Call clip's set sound volume routine (with zero argument)						1		
A4	Return OK response to requestor								1
A5	Return error response to requestor		1						
	DISPOSITION	L2 Ent	Done	L2 Loop	C4	L2 Exit	L2 Loop	L2 Loop	Do

Fig. 123 – Process Global Volume Off 1003

Global Volume Request Processor Process Query Global Volume								
Global Volume?	ON	OFF						
Return global sound ON status to requestor	1							
Return global sound OFF status to requestor		1						
Return global volume level to requestor	1	1						
Return OK response to requestor	J	1						
DISPOSITION	Done	Done						
	Process Query Global Volume Global Volume? Return global sound ON status to requestor Return global sound OFF status to requestor Return global volume level to requestor Return OK response to requestor D I S P O S I T I O N	Process Query Global Volume Global Volume? Return global sound ON status to requestor Return global sound OFF status to requestor Return global volume level to requestor Return OK response to requestor DISPOSITION	Process Query Global Volume Global Volume? Return global sound ON status to requestor Return global sound OFF status to requestor Return global volume level to requestor Return OK response to requestor	Process Query Global Volume Global Volume? Return global sound ON status to requestor Return global sound OFF status to requestor Return global volume level to requestor Return OK response to requestor DISPOSITION	Process Query Global Volume Global Volume? ON OFF Return global sound ON status to requestor Return global sound OFF status to requestor Return global volume level to requestor Return OK response to requestor DISPOSITION	Process Query Global Volume Global Volume? Return global sound ON status to requestor Return global sound OFF status to requestor Return global volume level to requestor Return OK response to requestor DISPOSITION	Process Query Global Volume Global Volume? ON OFF Return global sound ON status to requestor Return global sound OFF status to requestor Return global volume level to requestor Return OK response to requestor DISPOSITION	Process Query Global Volume Global Volume? ON OFF Return global sound ON status to requestor Return global sound OFF status to requestor Return global volume level to requestor Return OK response to requestor DISPOSITION

Fig. 124 - Process Query Global Volume 1004

1100	Load Asset Manager Components			
C1	Enter	Yes		
A1	Process Dup List (1101)	1		
A2	Load Network Bandwidth Speedometer (1102)	1		
А3	Process Level List (1103)	1		
A4	Process Swf List (1104)	1		
A5	Process Speedo List (1105)	1		
	DISPOSITION	Done		

Fig. 125 - Load Asset Manager Components 1100

1101	Load Asset Manager Components Process Dup List						
L1	Loop over Dup List entries	Ent	Lo	ор	Exit		
C2	More entries?		Yes	No			
A1	Extract info about container		1				
A2	Create Container (1106)		J				
	DISPOSITION	L1 Loop	L1 Loop	L1 Exit	Done	 	

Fig. 126 – Process Dup List 1101

Load Asset Manager Components Load Network Bandwidth Speedometer			,				,	ļ
Enter	Yes							
Is load finished?		No	Yes					
Extract Network Bandwidth Speedometer from 1st entry of Speedo List	1							
Create Container (1106)	1							
Load Clip (1107)	1							
Start Network Bandwidth Speedometer (1120)	1							
DISPOSITION	C2	C2	Done					
	Enter Is load finished? Extract Network Bandwidth Speedometer from 1st entry of Speedo List Create Container (1106) Load Clip (1107) Start Network Bandwidth Speedometer (1120)	Enter Is load finished? Extract Network Bandwidth Speedometer from 1st entry of Speedo List Create Container (1106) Load Clip (1107) Start Network Bandwidth Speedometer (1120) D I S P O S I T I O N	Enter Yes Is load finished? No Extract Network Bandwidth Speedometer from 1st entry of Speedo List Create Container (1106) Load Clip (1107) Start Network Bandwidth Speedometer (1120) D I S P O S I T I O N	Enter Is load finished? Extract Network Bandwidth Speedometer from 1st entry of Speedo List Create Container (1106) Load Clip (1107) Start Network Bandwidth Speedometer (1120) DISPOSITION	Enter Is load finished? Extract Network Bandwidth Speedometer from 1st entry of Speedo List Create Container (1106) Load Clip (1107) Start Network Bandwidth Speedometer (1120) DISPOSITION	Enter Is load finished? Extract Network Bandwidth Speedometer from 1st entry of Speedo List Create Container (1106) Load Clip (1107) Start Network Bandwidth Speedometer (1120) DISPOSITION	Enter Enter Is load finished? Extract Network Bandwidth Speedometer from 1st entry of Speedo List Create Container (1106) Load Clip (1107) Start Network Bandwidth Speedometer (1120) DISPOSITION	Enter Enter Is load finished? Extract Network Bandwidth Speedometer from 1st entry of Speedo List Create Container (1106) Load Clip (1107) Start Network Bandwidth Speedometer (1120) DISPOSITION

Fig. 127 – Load Network Bandwidth Speedometer 1102

Load Asset Manager Components Process Level List							···	
Loop over Level List entries	Ent	Lo	op	Exit				
More entries?		Yes	No					
Extract info about level		1						
Create Container (1106)		1						
Load Clip (1107)		1						
DISPOSITION	L1 Loop	L1 Loop	L1 Exit	Done				
	Process Level List Loop over Level List entries More entries? Extract info about level Create Container (1106) Load Clip (1107)	Process Level List Loop over Level List entries Ent More entries? Extract info about level Create Container (1106) Load Clip (1107) D I S P O S I T I O N L1	Process Level List Loop over Level List entries Ent Loo More entries? Extract info about level Create Container (1106) Load Clip (1107) DISPOSITION L1 L1	Process Level List Loop over Level List entries Ent Loop More entries? Yes No Extract info about level Create Container (1106) Load Clip (1107) DISPOSITION L1 L1 L1	Process Level List Loop over Level List entries Ent Loop Exit More entries? Yes No Extract info about level Create Container (1106) Load Clip (1107) DISPOSITION L1 L1 L1	Process Level List Loop over Level List entries Ent Loop Exit More entries? Yes No Extract info about level Create Container (1106) Load Clip (1107)	Process Level List Loop over Level List entries Ent Loop Exit More entries? Yes No Extract info about level Create Container (1106) Load Clip (1107) DISPOSITION L1 L1 L1	Process Level List Loop over Level List entries Ent Loop Exit More entries? Yes No Extract info about level Create Container (1106) Load Clip (1107) DISPOSITION L1 L1 L1

Fig. 128 - Process Level List 1103

1104	Load Asset Manager Components Process Swf List				, 1	 ,	
L1	Loop over Swf List entries	Ent	Lo	op	Exit		
C2	More entries?		Yes	No			
Al	Extract info about .swf file		1				
A2	Create Container (1106)		1				
A3	Load Clip (1107)		1				
	DISPOSITION	L1 Loop	L1 Loop	L1 Exit	Done		

Fig. 129 - Process Swf List 1104

Load Asset Manager Components Process Speedo List	· · · · · · · · · · · · · · · · · · ·							
Loop over Speedo List entries	Ent	Lo	op	Exit				
More entries?		Yes	No					-
Extract info about speedometer or spy file		1						F
Create Container (1106)		1						
Load Clip (1107)		1						+
DISPOSITION	L1 Loop	L1 Loop	L1 Exit	Done				<u> </u>
	Process Speedo List Loop over Speedo List entries More entries? Extract info about speedometer or spy file Create Container (1106) Load Clip (1107)	Process Speedo List Loop over Speedo List entries Ent More entries? Extract info about speedometer or spy file Create Container (1106) Load Clip (1107) DISPOSITION L1	Process Speedo List Loop over Speedo List entries Ent Lo More entries? Extract info about speedometer or spy file Create Container (1106) Load Clip (1107) DISPOSITION L1 L1	Process Speedo List Loop over Speedo List entries Ent Loop More entries? Yes No Extract info about speedometer or spy file Create Container (1106) Load Clip (1107) DISPOSITION L1 L1 L1	Process Speedo List Loop over Speedo List entries Ent Loop Exit More entries? Yes No Extract info about speedometer or spy file Create Container (1106) Load Clip (1107) DISPOSITION L1 L1 L1	Process Speedo List Loop over Speedo List entries Ent Loop Exit More entries? Yes No Extract info about speedometer or spy file Create Container (1106) Load Clip (1107)	Process Speedo List Loop over Speedo List entries Ent Loop Exit More entries? Yes No Extract info about speedometer or spy file Create Container (1106) Load Clip (1107) DISPOSITION L1 L1 L1	Process Speedo List Loop over Speedo List entries Ent Loop Exit More entries? Yes No Extract info about speedometer or spy file Create Container (1106) Load Clip (1107) DISPOSITION L1 L1 L1

Fig. 130 – Process Speedo List 1105

1106	Load Asset Manager Components Create Container							
Cl	Is load at a level?	Yes	N	0				
C2	Is a container supplied?		Yes	No				
C3	Are coordinates supplied?				Yes	МО		
A1	Set up level args for Load Clip	1						
A2	Create container with name and depth on level specified in args			1				
A3	Set coordinates				1			
A4	Set up container args for Load Clip				1	1		
	DISPOSITION	Done	C3	С3	Done	Done		

Fig. 131 - Create Container 1106

1107	Load Asset Manager Components Load Clip						
C1	Is Network Bandwidth Speedometer to be notified of this load?	Yes	No				
C2	Is clip load to be monitored?			Yes	No		
A1	Force monitor target to clip Playing	1					
A2	Add clip to monitor list with start time and load state of Inited			1			
A3	Start Load Monitor (1110) (may already be runningand that's			1			
A4	Load clip into level/container specified			1	1		
	DISPOSITION	C2	C2	Done	Done		

Fig. 132 - Load Clip 1107

1110	Load Monitor							
C1	Are there entries in the monitor list?	No			Yes			
L2	Loop through loads to be monitored		Ent		Loop		Exit	
C3	More entries to process?			Ye	ອຣ	No		
C4	Has load reached monitor target?			Yes	No			
A1	Stop until restarted	1						
A2	Process Monitor State (1111)				1			
А3	Wait until next frame						1	
	DISPOSITION	Stop C1	1	L2 Loop	L2 Loop	L2 Exit	Wait Cl	

Fig. 133 – Load Monitor 1110

L111	Load Monitor Process Monitor State								4
C1	Current monitor state?				Play	Stop ped	Done		
Cı		ed	ing		1119	P		Yes	N¢
C2	Has monitor target been reached?			ļ 					
A1	Check Loading Started (1112)	1							
A2	Check Loading Complete (1113)		1						
	Check Playing Started (1114)			1					
A4	Check Playing Stopped (1115)				1				
			-		 			1	
A5	Call callback routine, if any			-	-		-	1	
A6	Mark entry done								_
	DISPOSITION	C3	C3	C3	C3	Dor	e Done	Done	Do

Fig. 134 - Process Monitor State 1111

112	Load Monitor Check Loading Started				 	
C1	Is current load frame greater than 0?	Yes	No	>		
C2	Has timeout expired?		No	Yes		<u> </u>
A1	Set monitor state to Loading	1				
A2	Increment time for timeout test		1			
A3	Set load state to Done			1	 	
	DISPOSITION	Done	Done	Done		

Fig. 135 - Check Loading Started 1112

1113	Load Monitor Check Loading Complete				 		
Cl	Is current load frame at total frames?	Yes	N	0			
C2	Has timeout expired?		No	Yes			
A1	Set monitor state to Loaded	1					
A2	Increment time for timeout test		1				
А3	Set load state to Done			1			
	DISPOSITION	Done	Done	Done			

Fig. 136 - Check Loading Compete 1113

1114	Load Monitor Check Playing Started						,	
C1	Is current frame greater than 0?	Yes	N	0				
C2	Has timeout expired?		No	Yes				
С3	Is Network Bandwidth Speedo to be informed?				Yes	No		
A1	Set monitor state to Playing	1						
A2	Increment time for timeout test		1					
A3	Set load state to Done			1				
A4	Report clip to Network Bandwidth Speedo (1120)				1			
	DISPOSITION	С3	Done	Done	Done	Done		

Fig. 137 - Check Playing Started 1114

1115	Load Monitor Check Playing Stopped					 	
C1	Is current frame same as last check?	Yes	N	0			
C2	Has timeout expired?		No	Yes			
A1	Set monitor state to Stopped	1					
A2	Increment time for timeout test		1				
A3	Set load state to Done			1			
	DISPOSITION	Done	Done	Done			

Fig. 138 - Check Playing Stopped 1115

1120	Network Bandwidth Speedometer						
C1	Is speedo on?	No	Yes				F
C2	Has average changed bandwidth category?			Yes	No		
A1	Get current time as clip's finish time		1				
A2	Compute load time from start and finish		1				
А3	Compute instantaneous rate for that clip (in bytes per second)		1				
A4	Accumulate load time and size into a new running average rate (in bytes		J				
A5	Set new Bandwidth Category (used for clip variant choice (see			1			
A6	Set new Bandwidth Available value (used for Bandwidth Hog processing)			1			
	DISPOSITION	Done	C2	Done	Done		

Fig. 139 – Network Bandwidth Speedometer 1120

1121	Network Bandwidth Speedometer Turn On Speedo			 	
C1	Is speedo on?	No Yes			
A1	Set ON flag	1			
	DISPOSITION	Done Don	e		

Fig. 140 - Turn On Speedo 1121

1122	Network Bandwidth Speedometer Turn Off Speedo	
C1	Is speedo on?	No Yes
A1	Clear ON flag	
	DISPOSITION	Done Done

Fig. 141 - Turn Off Speedo 1122

1130	CPU Cycles Speedometer							
C1	Enter at frame 1	Y€	s					
C2	Is speedometer on?	No	Yes					
C3	Has average changed cycles category?			Yes	No			
C4	Has control variable frame number been reached?				'	N	lo .	Yes
C5	Is this the last frame?					No	Yes	
A1	Get start time		1					
A2	Run measured loop		1					
A3	Get finish time		1					
A4	Compute loop time from start and finish		1					
A5	Compute instantaneous rate for loop (in operations per second)		1					
Аб	Accumulate loop time and size into a new running average rate (in ops per		1					
A7	Set new Cycles Category (used for clip variant choice (see			1				
A8	Set new Cycles Available value (used for Cycle Pig processing)			J				
A9	Set new control variable			1				
A10	Advance to next frame			1	1	1		
A11	Jump back to frame 1						1	1
	DISPOSITION	Stop C1	С3	C4	C4	C4	C1.	C1

Fig. 142 - CPU Cycles Speedometer 1130

131	CPU Cycles Speedometer Turn On Speedo			 	 	 -
C1	Is speedometer on?	Yes	No			
A1	Set loop enable flag		1			
A2	Start loop (1130)		1			
	DISPOSITION	Done	Done			

Fig. 143 - Turn On Speedo 1131

132	CPU Cycles Speedometer Turn Off Speedo			 	
Cl	Is speedometer on?	Yes	No		
A1	Clear loop enable flag	1			
	DISPOSITION	Done	Done		

Fig. 144 - Turn Off Speedo 1132

1140	Frame Rate Speedometer							
C1	Enter at frame 1	Υe	s					
C2	Is speedometer on?	No	Yes					
G3	Does frame number equal control variable?			No	Yes			
C4	Has average changed frame rate category?					Yes	Мо	
A1	Get start time		1					
A2	Advance to next frame		1	1				
A3	Get finish time				1			
A4	Compute frame time from start and finish				J			
A5	Compute instantaneous frame rate (in frames per second)				1			
Аб	Accumulate frame time and count into a new running average rate (in frames				1			
A7	Set new Frame Rate Category					1		
8 <i>A</i>	Adjust Cycles Category and Cycles Available for Frame Rate Category (used for clip variant choice (see					1		
A9	Jump back to frame 1					1	1	
	DISPOSITION	Stop C1	С3	С3	C4	C1	C1	
	\				7	1		Т

Fig. 145 – Frame Rate Speedometer 1140

1141	Frame Rate Speedometer Turn On Speedo						
C1	Is speedometer on?	Yes	No				
A1	Set loop enable flag		1				
A2	Start loop (1140)		1				
	DISPOSITION	Done	Done				

Fig. 146 - Turn On Speedo 1141

142	Frame Rate Speedometer Turn Off Speedo			—		
C1	Is speedometer on?	Yes	No			
 A1	Clear loop enable flag	1				
	DISPOSITION	Done	Done			

Fig. 147 - Turn Off Speedo 1142

1200	Bootstrap RunTime Bootstrap		 		
C1	Starting?	Yes		1	
A1	Site URL access causes bootstrap to be loaded Bootstrap performs remaining operations	1			
A2	Set startup flag	1			
A3	Load Preloader (1210)	1			
A4	Load Asset Manager/Active Content Loader (1220)	1			
A5	Load Session (1230)	1			
A6	Load Tables (1240)	1			
	DISPOSITION	Done			

Fig. 148 – Bootstrap 1200

1210	Load Preloader RunTime Bootstrap		r	· · · · ·			 	
C1	Entry?	Yes						
C2	Preloader loaded?		No	Yes				
C3	Was preloader load fast or slow?				Fast	Slow		
A1	Load Preloader Get load start time	1						
A2	Get load finish time Compute total load time Save load time and size for later			1				
A3	Preloader starts playing automatically					1		
A4	Preloader sets its pointer in the /vars block					1		
	DISPOSITION	C2	C2	С3	Done	Done		

Fig. 149 – Load Preloader 1210

1220	Load Asset Manager / Active Content Loader RunTime Bootstrap		,	, ,				
C1	Entry?	Yes						
C2	AM / ACL loaded?		No	Yes				
A1	Load AM / ACL Get load start time	1						
A2	Get load finish time Compute total load time Save load time and size for later			1				
A3	AM initializes itself			1				
A4	AM sets its /vars block pointer to indicate it is initialized and ready to operate			1				
A5	ACL initializes itself			1				
A6	ACL sets its /vars block pointer to indicate it is initialized and ready to operate			1				
	DISPOSITION	C2	C2	Done				
		1	1	}	1	1	ł	1

Fig. 150 – Load Asset Manager / Active Content Loader 1220

1230	Load Session RunTime Bootstrap				 		
			,		 	,	
C1	Entry?	Yes					
C2	Is Session loaded?		No	Yes			
A1	Register with AM for Session Save Session Slot pointer	1					
A2	Set Session info into its slot Mark slot urgent	1					
A3	Issue load request to AM via slot	1					
A4	Session starts playing automatically (1300)			1			
	DISPOSITION	C2	C2	Done			

Fig. 151 - Load Session 1230

1240	Load Tables RunTime Bootstrap							
							 	
C1	Entry?	Yes						
C2	Is startup flag still set?		Yes	No				
C3	Are Tables loaded?				No	Yes		
A1	Register with AM for Tables Save Tables Slot pointer	1						
A2	Set Tables info into its slot Mark slot normal			1				
A3	Issue load request to AM via slot			1				
A4	Tables starts playing automatically					1		
A5	Tables sets its /vars block pointer to indicate it is initialized and ready to operate					1		
	DISPOSITION	C2	C2	С3	СЗ	Done		

Fig. 152 - Load Tables 1240

L300	Init Projects Session Operation						 ,		,
C1	Is Session completely loaded?	No	Yes						
L2	For each project			Ent	Loop	Exit			
C3	More projects?				Yes	ИО			
C4	Is first project loaded?						No	Yes	
A1	Session starts playing automatically	1	1						-
A2	Set ready flag		1						
A3	Set pointer for base of persistent data blocks		1						
A4	Dup container for project file Set project pointer array in /vars block				1				
A5	Register with AM for first project Save project Slot pointer						1		
A6	Set first project info into its slot Mark slot urgent						1		
A7	Issue load request to AM via slot Set current project index to 1						1		
A8	First Project starts playing automatically (1400)								
A9	Init Projects - continued (1310)								
	DISPOSITION	C1	L2	L2	L2 Loop	L2 Exit	C4	C4	D

Fig. 153 - Play Session 1300

1310	Init Projects - continued Session Operation		,	,	,	 ,	-,	1
L1	For each remaining project after the first	Ent	Гоор	Exit				
C3	More projects?		Yes	No				
A1	Register with AM for project Save project Slot pointer		1					
A2	Set project info into its slot Mark slot urgent		1					
	DISPOSITION	L1 Loop	L1 Loop	L1 Exit	Done			

Fig. 154 – Init Projects 1310

L320	doDone() Session Routine				 			
	Entry?	Yes						
CI			Yes	No				
C2	Project index valid?				 	+	-	
	and project index	1						
A1	Increment current project index		1		 +			
A2	Select slot for new current project				 			
	Issue load request to AM via slot		1					ļ
A3			1		 -	-		
A4	Project starts playing automatically (1400)				 -			
	Web site finished			1				
A5	Web site imisited				#=			
	DISPOSITION	C2	Done	Done				_

Fig. 155 - Session doDone() 1320

1400	Play Project Project Operation						,
C1	Is Project completely loaded?	No	Yes		-		
A1	Project starts playing automatically	1	1				
A2	Set ready flag		1	-			
A3	Initialize project variables Set current project pointer in /vars block		1				
A4	Dup container for Scene 1		1				
A5	Register with AM for Scene 1 Save project Slot pointer		1				
A6	Set Scene 1 info into its slot Mark slot urgent		1				
A7	Issue prep, stage, load and play requests to AM via slot Set current scene index to 1		1				
A8	Dup container for Scene 2		1				T
A9	Register with AM for Scene 2 Save project Slot pointer		1				
A10	Set Scene 2 info into its slot Mark slot normal		1				
A11	Issue prep and stage requests to AM via slot		1				
A12	Wait Scene 1 Play (1410)		1				
	DISPOSITION	C1	Done				T

Fig. 156 – Play Project 1400

1410	Wait Scene 1 Play Project Operation				, ,	 	
C1	Is Scene 1 playing?	No	Yes				
C2	Are Tables ready?			No	Yes		
A1	Clear startup flag		1				
A2	Request new table for Scene Table Save table pointer				1		
A3	Request new table for Scene 2 Quicklink Table Save table pointer in Scene 2 slot		-		1		
A4	Init Scene Table				1		
A 5	Init Scene 2 Quicklink Table				1		
A6	Request new table for Scene 1 Quicklink Table Save table pointer in Scene 1 slot				1		
A7	Init Scene 1 Quicklink Table				1		
A8	Add all quicklinkable Scene 1 components to the Scene 1 Quicklink Table				1		
A9	Set current Quicklink Table pointer to Scene 1's Quicklink Table				1		
A10	Build Scene Table (1420)				1		
	DISPOSITION	C1	C2	C2	Done		

Fig. 157 - Wait Scene 1 Play 1410

L420	Build Scene Table Project Operation		 				 	
C1	Entry?	Yes						
L2	Create remaining scenes		Entry	Loop	Exit			1
C3	More scenes?			Yes	No			
A1	Add Scene 1 to Scene Table	1						F
A2	Add Scene 2 to Scene Table	1						T
A3	Duplicate container for scene			1				1
A4	Register scene with AM Save scene slot pointer			1				
A5	Set scene info in slot Mark slot normal			1				
A6	Request new table for scene's Quicklink Table			1				
A7	Add scene to Scene Table			1				T
A8	Finish Scene Init (1430)					1		
	DISPOSITION	L2 Entry	L2 Loop	L2 Loop	L2 Exit	Done		F

Fig. 158 – Build Scene Table 1420

1430	Finish Scene Init Project Operation						,	
L1	For scenes after Scene 2	Entry	Loop	Exit		 	-	
C2	More scenes?		Yes	No		 		
A1	Init Scene's Quicklink Table		1					
A2	Set project table pointer to indicate that project tables are available				1			
	DISPOSITION	L1 Loop	L1 Loop	L1 Exit	Done			

Fig. 159 – Finish Scene Init 1430

L440	doDone() Project Routine	 	,	 ,	 -		 	
Cl	Are tables available?	Ио	Yes					
C2	Looping enabled?			Yes	No			
C3	Scene index too large?			Yes	No			
A1	Ignore request	1						
A2	Call doOldScene() (1490)		1					
A3	Increment current scene index		1					
A4	Reset current scene index to 1			1				
A5	Call doNewScene() (1500)			1	1	1		1
A6	Call doNextScene() (1510)			1	1	1		
	DISPOSITION	Done	C2	Done	Done	Done		+

Fig. 160 - Project doDone() 1440

L450	doJump() Project Routine								Ţ	
C1	Are tables available?	No	Ye	S					<u> </u>	-
C2	Scene Found?			1	10 A	es			<u> </u>	
A1	Ignore request	1								
			+-	-						
A2	Extract destination scene ID		+	/					-	
A3	Look up ID in Scene Table				1	1		<u> </u>		+
A4	Call doOldScene() (1490)							-		
A5	Call Session doDone() (1310)				1					_
A6	Set new destination scene ID					•				
	Mark new scene's slot urgent		_			1				
A7						1		_		
A8	Issue prep, stage, and load requests to AM via slot					1		_		
A9	Call doNewScene() (1500)					1	-			
A10	Call doNextScene() (1510)					7				
	DISPOSITION	D	one	C2	Done	Don	e			

Fig. 161 - Project doJump() 1450

460	doForceDone() Project Routine		ļ		
C1	Entry?	Yes			
A1	Set force flag true	1			
A2	Call doDone() (1440)	1			
	DISPOSITION	Done			

Fig. 162 - Project doForceDone() 1460

170	doHold() Project Routine			
	Entry?	Yes		
A1	Increment hold count	1		
	DISPOSITION	Done		

Fig. 163 - Project doHold() 1470

480	doRelease() Project Routine			
		Yes		
C1	Entry?		 ++	
A1	Decrement hold count			
2.1			+	
	DISPOSITION			

Fig. 164 - Project doRelease() 1480

490	doOldScene() Project Routine									
C1	Are tables available?	No	Yes							
				1	10 A	es				
C2	More than 1 scene?			+		No	Yes			
C3	More than 2 scenes?									
		1	-	+						
Al	Ignore request									
A2	Save current scene index as old index		1							
	11.1.11. mointer					1		1		
A3	Clear current Quicklink table pointer in /vars block			\dashv		1		1		
A4	Retrieve scene entry in Scene Table							1		-
	Call scene doEnd() (to hide scene)					✓				
A5								1	_	
A6	Issue unload request to AM via scene's slot									+
	DISPOSITION	Do	ne	C2	Done	C3	Done	Done		-

Fig. 165 - Project doOldScene() 1490

1500	doNewScene() Project Routine						 	
C1	Are tables available?	No	Yes					
C2	More than 1 scene?		No	Yes				
C3	More than 2 scenes?				No	Yes		
A1	Ignore request	1						
A2	Retrieve scene entry in Scene Table			1				
A3	Restart scene timeline				1			
A4	Issue play request to AM via scene's slot					1		
A5	Set current scene pointer in /vars Set current quicklink table pointer in /vars				1	1		
	DISPOSITION	Done	Done	C3	Done	Done		

Fig. 166 - Project doNewScene() 1500

1510	doNextScene()							
	Project Routine			,		, ,		
C1	Entry?	Yes						
C2	Is Scene ID valid?		Yes	No				
C3	Looping enabled?			No	Yes			
C4	More than 2 scenes?				No	Yes		
A1	Set next scene index to current index + 1	1						
A2	Ignore request			1				
A3	Reset scene index to 1				1			
A4	Issue prep, stage, and load requests to AM via scene's slot						1	
	DISPOSITION	C2	C4	Done	C4	Done	Done	

Fig. 167 - Project doNextScene() 1510

1600	Play Scene Scene Operation		, ,	 	 	 ,
C1	Is Scene completely loaded?	No	Yes			
A1	Scene starts playing automatically	1	1			
A2	Set ready flag		1			-
A3	Init scene time variables		1			
A4	Initialize other scene variables		1			
A5	Stop and wait for Begin Scene (1610)		1			
	DISPOSITION	C1	Done			

Fig. 168 - Play Scene 1600

1610	Begin Scene Scene Operation			 		 	
C1	Play at frBegin?	ИО	Yes				
A1	Stopped, waiting for play	1					
A2	Call doShow() on each component's control to turn it on		1				
A3	Set scene start time to current timer time		1				
A4	Init for (re)play of scene "Needed" Done count set to component count		1				
A.5	Wait for scene timeout (1620)		1				
	DISPOSITION	C1	Done		ļ		

Fig. 169 – Begin Scene 1610

620	Wait Scene Timeout Scene Operation		Γ						_
C1	Has scene timeout elapsed?	No	Yes						_
	Is scene being held?			Yes	ИО				
C2	Is scene being here.				Set	clr			
C3	Done flag?						No		_
C4	Is scene being forced done?					Yes	NO		_
	Set Done Flag		1						
A1				+	1		1		
A2	Call project doRelease() (1480)				1		1		_
A3	Call project doDone() (1440)								į_
AJ					1		1		1
A4	Clear Done Flag						-		H
	DISPOSITION	С	2 C	$\left \begin{array}{c c} C^2 \end{array}\right $	Done	C4	Done	C1	1

Fig. 170 - Wait Scene Timeout 1620

630	doDone()				 	1		工
	Scene Routine	Yes						
C1	Entry?	165			 			+
-			Yes	No			1	
C2	Does "done" count equal or exceed "needed"				 	-		\pm
		1						
A1	Increment "done" count	1			 			+
			1				1	
A2	Set Done Flag				-			\Rightarrow
	- 2 GITION							
	DISPOSITION	C2	Done	Done	 			_

Fig. 171 - Scene doDone() 1630

640	doForceDone() Scene Routine			 	
C1	Entry?	Yes			
A1	Set "force" flag	1		<u> </u>	
A2	Call project doRelease() (1480) for each "hold"	1		-	
	DISPOSITION	Done			

Fig. 172 - Scene doForceDone() 1640

650	doHold() Scene Routine			
C1	Entry?	Yes		
A1	Increment hold count	1		
A2	Call project doHold() (1470)	1		
	DISPOSITION	Done		

Fig. 173 - Scene doHold() 1650

660	doRelease() Scene Routine							_
		Yes	1					
C1	Entry?			+	<u> </u>			二
		1					1	
A1	Decrement hold count				ļ			+
A2	Call project doRelease() (1480)	1						-
AZ	Cum proje		-		+	+		T
	DISPOSITION	Done					-	1

Fig. 174 - Scene doRelease() 1660

670	doJump() Scene Routine		 		 	F
C1	Entry?	Yes				-
A1	Pass Jump ID to project	1				+
A2	Call project doJump() (1450)	1				+
	DISPOSITION	Done			<u> </u>	1

Fig. 175 - Scene doJump() 1670

680	doEnd() Scene Routine			-
C1	Entry?	Yes		
A2	Call doHide() on each component's control to turn it off	1		+
	DISPOSITION	Done		+

Fig. 176 - Scene doEnd() 1680

1700	Asset Manager (56KB bandwidth version) Initialization and Startup						
C1	Entry?	Yes					
C2	Is network bandwidth high?		Yes	No			
A1	Initialize Asset Manager	1					
A2	Initialize Active Content Loader (1900)	1					
A3	Initialize Urgent queue	1					
A4	Initialize Normal queue	1					
A5	Load high bandwidth Asset Manager		1		 		-
A6	Set AM pointer in /vars block to indicate ready to operate		1	1			
A7	Start Operation Processing Loop (1800)		1	1			
A8	Wait for User Request Calls (1710)		1	1			
	DISPOSITION	C2	Done	Done			
			 		 1		 1

Fig. 177 - AM Init and Startup 1700

1710	Asset Manager (56KB bandwidth version) User Request Calls								
C1	User request?	Reg	Prep	Stg	Load	Play	Unld	Other ne	No
A1	Process Registration request (1720)	1							
A2	Process Scene Prep request (1730)	-	1						
A3	Process Scene Stage request (1740)			1					
A4	Process Load request (1750)				1				
A5	Process Play request (1760)					1			·
A6	Process Unload request (1770)						1		
A7	Set error response							1	
	DISPOSITION	C1	C1	C1	C1	C1	C1	C1	CI

Fig. 178 - AM User Request Calls 1710

1720	Asset Manager (56KB bandwidth version Process Registration request	1)		 	
C1	Entry?	Yes			
A1	Create "slot" timeline	1			
A2	Initialize variables in slot	1			
A3	Initialize op list in slot	1	 	 	
A4	Return slot pointer	1			
	DISPOSITION	Done			

Fig. 179 - AM Process Registration 1720

1730	Asset Manager (56KB bandwidth version) Process Scene Prep request			
C1	Entry?	Yes		
A1	Set prep op and prep flag	1		
A2	Queue slot (1780)	1		
	DISPOSITION	Done		
	DISPOSITION	Done		

Fig. 180 - AM Scene Prep 1730

1740	Asset Manager (56KB bandwidth version) Process Scene Stage request		 		 	
C1	Entry?	Yes				
A1	Set stage op and stage flag	1				
A2	Queue slot (1780)	1				
	DISPOSITION	Done				
 	<u></u>	 	 	T	 1	

Fig. 181 - AM Scene Stage 1740

750	Asset Manager (56KB bandwidth version Process Load request		Ţ		 -
C1	Entry?	Yes			
A1	Set load op and load flag	1			_
A2	Queue slot (1780)	1			
	DISPOSITION	Done			

Fig. 182 - AM Scene Load 1750

760	Asset Manager (56KB bandwidth version Process Play request			
C1	Entry?	Yes		
A1	Set play op and play flag	1		
A2	Queue slot (1780)	1		
	DISPOSITION	Done		

Fig. 183 - AM Process Play 1760

770	Asset Manager (56KB bandwidth version Process Unload request		 -		
C1	Entry?	Yes			
A1	Set unload op	1			
A2	Queue slot (1780)	1			
	DISPOSITION	Done			

Fig. 184 - AM Process Unload 1770

1780	Asset Manager (56KB bandwidth version Queue slot)					
C1	Entry?	Yes					
C2	Is slot's urgent flag set?		Yes	No			
A1	Add op to slot's op list	J					
A2	Set slot busy	1					
A3	Add slot to tail of Urgent queue		1				
A4	Increment Urgent queue count		1				
A5	Add slot to tail of Normal queue			1			
A6	Increment Normal queue count			1			
A7	Play Operation Processing Loop (1800)		1	1			
	DISPOSITION	C2	Done	Done			

Fig. 185 – AM Queue Sot 1780

1790	Asset Manager (56KB bandwidth version) Dequeue slot				 ,			
C1	Is slot on urgent or normal queue?	urg	norm	oth				
A1	Remove slot from urgent queue	1						
A2	Decrement urgent queue count	1						
A3	Remove slot from normal queue		1			1		
A4	Decrement normal queue count		1		 1			
A5	Set error			1				
	DISPOSITION	Done	Done	Done				

Fig. 186 - AM Dequeue Sot 1790

1800	Asset Manager (56KB bandwidth version) Operation Processing								
C1	Entry?	Yes							
C2	Does slot exist?		Yes	No					
СЗ	Does slot exist?				Yes	No			
C4	Is Urgent queue empty?					No	Yes		
A1	Select slot on Head of Urgent queue	1					1		
A2	Select slot on Head of Normal queue			1					
A3	Process Op(s) in selected slot (1810)		1		1				
A4	Select next slot on Urgent queue		1						
A5	Select next slot on Normal queue							1	
NOTE	Code stops when both queues are empty. Code that adds a slot to a queue does a "play" which starts the code up again.					1			
	DISPOSITION	C2	C2	C3	C4	Stop C1	C2	С3	

Fig. 187 - AM Operation Processing 1800

1810	Asset Manager (56KB bandwidth version) Process Op(s) in selected slot			,					
C1	Is op index zero?	Yes	No						
C2	Is there an op?			Yes	No				
C3	Does response index match op index?			Yes	No				
C4	Is op complete?			Yes	No				
C5	Is op flag still set?						Yes	No	
A1	Initialize op index to one Initialize response index to zero	1							
A2	Increment op index			1					1
A3	Select op (at op index)	1	1	1					1
A4	Set op flag					1			
A5	Process op (1820)					1			
A6	Set no such op error							1	
A7	Set error response						 	1	
A8	Reset op list						1		
A9	Dequeue slot from its queue (1790)						1	1	
A10	Op still in progress				1				
	DISPOSITION	C2	C2	C2	Done	C5	Done	Done	C

Fig. 188 - AM Process Op(s) In Slot 1810

1820	Asset Manager (56KB bandwidth version) Process Op	·		T				
C1	Op?	Prep	Stg	Load	Play	Unld	Oth	
A1	Clear op flag (indicates op exists)	1	1	1	1	1		
A2	Set response index to op index	1	1	1	1	1		
A3	Set busy response	1	1	1	1	1		F
A4	Process Prep operation (1830)	1						
A5	Process Stage operation (1840)		1					
A6	Process Load operation (1850)			1				
A7	Process Play operation (1860)				1			 -
A8	Process Unload operation (1870)					1		T
	DISPOSITION	Done	Done	Done	Done	Done	Done	 F

Fig. 189 – AM Process Op 1820

1830	Asset Manager (56KB bandwidth version) Process Prep operation		 	-,	,	·	
C1	Entry?	Yes					
A1	Set up scene file information	1					
A2	Register with Active Content Loader for load (1920)	1					
	DISPOSITION	Done					

Fig. 190 - AM Process Prep Operation 1830

1840	Asset Manager (56KB bandwidth version) Process Stage operation					
C1	Entry?	Yes				
A1	Set up scene's data block files info	1				
A2	Register with Active Content Loader for load (1920)	1				
	DISPOSITION	Done				

Fig. 191 - AM Process Stage Operation 1840

1850	Asset Manager (56KB bandwidth version) Process Load operation		,	· 	 	,	,
C1	Scene or clip load?	sc ene	clip				
A1	Set up scene's control, chrome, and debug files info	1					
A2	Set up clip's file info		1				
A3	Register with Active Content Loader for load (1920)	1	1				
	DISPOSITION	Done	Done				

Fig. 192 - AM Process Load Operation 1850

1860	Asset Manager (56KB bandwidth version) Process Play operation		+	 	 , ,	
Cl	Scene or clip?	sc ene	clip			
A1	Play scene's frBegin frame	1				
A2	Call clip's doPlay() function		1			
	DISPOSITION	Done	Done			

Fig. 193 - AM Process Play Operation 1860

1870	Asset Manager (56KB bandwidth version Process Unload operation	1)			 	
C1	Scene or clip?	sc ene	clip			
AI	Call scene's doEnd() function	1				
A1	Unload scene's control and chrome files	1				
A2	Call clip's doHide() function		1			
A2	Unload clip		1			
	DISPOSITION	Done	Done			

Fig. 194 - AM Process Unload Operation 1870

1900	Active Content Loader Initialization and Startup		 			
C1	Entry?	Yes				
A1	Init ACL urgent and normal queues	1				
A2	Init ACL working pointers	1			1	
A3	Load Project Text file containing object parameters	1				
A4	Init ACL bandwidth algorithm variables	1				 -
A5	Init ACL CPU algorithm variables	1				
A6	Start CPU speedometer (2070)	1				
A7	Start frame rate speedometer (2080)	1			-	
A8	Set ACL pointer in /vars block to indicate ready to operate	1		+		 -
A9	Start Loader frame loop (1960)	1			+	-
A10	Wait for Asset Manager Request Calls (1910)	1			1	
	DISPOSITION	Done			+	

Fig. 195 - ACL Init and Startup 1900

1910	Active Content Loader Asset Manager Request Calls				 	
C1	Request type?	Reg	Un reg			
A1	Process Register (1920)	1				
A2	Process Unregister (1930)		1			
	DISPOSITION	Done	Done			

Fig. 196 – ACL AM Request Calls 1910

1920	Active Content Loader Process Register				·	 -	 	_
C2	Operation?	Prep	Stg	Load	Oth			_
C3	Clip or scene?			clip	sc ene			_
A1	Set up for load of scene file	1						_
A2	Set up for load of scene data block file(s)		1					
A3	Set up for load of clip file			1				_
A4	Set up for load of scene control block, chrome, and debug files				1			_
A5	Queue Slot (1940)	1	1	1	1			
A6	Set error					1		_
	DISPOSITION	Done	Done	Done	Done	Done		_

Fig. 197 – ACL Process Register 1920

1930	Active Content Loader Process Unregister				 ,	,	,
C1	Is slot registered?	Yes	No				
A1	Dequeue slot (1950)	1					
A3	Abort loads in progress (1990)	1					
A4	Set error		1				
	DISPOSITION	Done	Done				

Fig. 198 – ACL Process Unregister 1930

1940	Active Content Loader Queue slot			 	 		
C1	Is slot's urgent flag set?	Yes	No	 			
A 1	Add slot to tail of Urgent queue	1					
A4	Increment Urgent queue count	1					
A3	Add slot to tail of Normal queue		1				
A4	Increment Normal queue count		1				
A5	Play Loader Frame Loop (1960)	1	1				
	DISPOSITION	Done	Done				

Fig. 199 – ACL Queue Slot 1940

1950	Active Content Loader Dequeue slot				 	 	
Cl	Is slot on urgent or normal queue?	urg	norm	oth			
A1	Remove slot from urgent queue	1					
A2	Decrement urgent queue count	1					
A3	Remove slot from normal queue		1				
A4	Decrement normal queue count		1				
A5	Set error			1			
	DISPOSITION	Done	Done	Done			

Fig. 200 – ACL Requeue Slot 1950

1960	Active Content Loader Loader frame loop				,				
Cl	Entry?	Yes							
C2	Does slot exist?		Yes	No					
C3	Does slot exist?				Yes	No			
C4	Is Urgent queue empty?					No	Yes		
A1	Set abort flag in slot from Normal queue						1		
A2	Select slot on Head of Urgent queue	1					1		
A3	Select slot on Head of Normal queue			1					
A4	Perform load processing (1970)		1		1				
A 5	Select next slot on Urgent queue		1						
A6	Select next slot on Normal queue							1	
NOTE	Code stops when both queues are empty. Code that adds a slot to a queue does a "play" which starts the code up again.					1			
	DISPOSITION	C2	С2	СЗ	C4	Stop C1	C2	C3	

Fig. 201 - ACL Loader Frame Loop 1960

970	Active Content Loader Perform load processing		T				
C1	Entry?	Yes					
C2	Is load finished??		Yes	No			
C3	Is load being aborted?			Yes	No		
A1	Check loads done (1980)	1					
A2	Abort loads (1990)			1			_
A3	Set load done response		1			 	
A4	Dequeue slot (1950)		1	1			
A5	Continue load processing (2000)				1		
	DISPOSITION	C2	Done	Done	Done		

Fig. 202 - ACL Perform Load Processing 1970

980	Active Content Loader Check loads done							
L1	Loop thru loads in progress	Ent	Loop	Exit				_
C2	Is there a load in progress to check?		Y	N				
C3	Is load in progress completed?		Y	N				
A1	Select 1st load in progress	1						
A2	Mark component loaded		1					
A3	Record load finish time		1					+
A5	Report load start and end times and file size to Bandwidth Speedometer (2060)		1					-
A4	Compute new percent loaded		1	1			 -	+
A5	Select next load in progress		1	1				1
	DISPOSITION	L1 Loc	L1 p Loo	L1 p Loop	L1 Exit	Done		

Fig. 203 - ACL Check Loads Done 1980

1990	Active Content Loader Abort loads							
L1	Loop thru loads in progress	Ent	Loop	Exit				
C2	Is there a load in progress to abort?		Y	N				
A1	Select 1st load in progress	1						
A2	Abort load in progress		1					
A3	Mark item unloaded		1			1		-
A4	Select next load in progress		1					
	DISPOSITION	L1 Loop	L1 Loop	L1 Exit	Done			

Fig. 204 - ACL Abort Loads 1990

2000	Active Content Loader Continue load processing					 	-,	
C1	Load operation?	Prep	Stg	Load				
C2	Clip or scene?			clip	sc ene			
A1	Perform prep processing (2010)	1						
A2	Perform stage processing (2020)		1					
A3	Perform clip load processing (2030)			1				
A4	Perform scene load processing (2040)				1			
	DISPOSITION	Done	Done	Done	Done			

Fig. 205 – ACL Continue Load Processing 2000

2010	Active Content Loader Perform prep processing					
C1	Are there free load channels?	No	Yes	 -		
A1	Allocate load channel		1			
A2	Select Matching File (2050)		1			
A3	Record load start time		1			
A4	Start load of scene file		1			
	DISPOSITION	Done	Done			

Fig. 206 - ACL Perform Prep Processing 2010

2020	Active Content Loader Perform stage processing				,	 		
C1	Are there free load channels?	Мо	Yes					
C2	Are there more data blocks to load?			Yes	No			
A1	Allocate load channel		1					
A2	Pick next data block		1					
A3	Select Matching File (2050)		1					
A4	Record load start time		1					
A5	Start load of data block file		1					
	DISPOSITION	Done	C2	C1	Done			

Fig. 207 - ACL Perform Stage Processing 2020

2022	Active Content Loader Perform stage processing						 	
C1	Are there any objects in the scene?	No	Yes				 	
L2	Loop through data blocks		Ent	Lo	op	Exit		
C3	More data blocks needed for this scene?	+		Yes	No			
A1	Dup master data block			1				
A2	Init new data block for object			J				
A3	Copy object parameters (2025)			1				
A4	Check Scene Checksums (2028)					1		
	DISPOSITION	Done	L2 Loop	L2 Loop	L2 Exit	Done		

Fig. 208 - ACL Perform Stage Processing 2022

2025	Active Content Loader Copy Object Parameters		,					
L1	Loop through object parameters	Ent		Lo	op		Exit	
C2	More integer parameters?		Yes	No				
C3	More string parameters?			Yes	МО			
C4	More floating point parameters?				Yes	No		
A1	Copy parameter to data block		1	1	1			
A2	Add parameter to object's integer checksum		1					
A2	Add parameter to object's string checksum			1				
A2	Add parameter to object's float checksum				1			
A5	Save the three checksums in the data block						1	
	DISPOSITION	L1 Loop	L1 Loop	L1 Loop	L1 Loop	L1 Exit	Done	

Fig. 209 - ACL Copy Object Parameters 2025

2028	Active Content Loader Check Scene Checksums								
C1	Are there any objects in the scene?	No	Yes						
L2	Loop through data blocks		Ent	Lo	qo	Exit			
C3	More data blocks for this scene?			Yes	ИО				
C4	Do check values match scene checksums?					Yes	No		
Al	Init integer, string, and float checksum check values		1						
A2	Add object integer checksum to integer check value			1					
А3	Add object string checksum to string check value			1					
A4	Add object float checksum to float check value			1					
A5	Display error message dialog box						1		
Аб	Halt processing (project cannot be viewed)						1		_
	DISPOSITION	Done	L2 Loop	L2 Loop	L2 Exit	Done	Done	Done	

Fig. 210 - ACL Check Scene Checksums 2028

2030	Active Content Loader Perform clip load processing				,	
C1	Are there free load channels?	No	Yes			
A1	Allocate load channel		1			
A2	Select Matching File (2050)		1	 		
A3	Record load start time		1			
A4	Start load of clip file		1			
	DISPOSITION	Done	Done			

Fig. 211 - ACL Perform Clip Load Processing 2030

2040	Active Content Loader Perform scene load processing			·····		 		
C1	Are there free load channels?	No	Yes				 	
C2	Are there more component files to load?			Yes	No			
A1	Allocate load channel		1					
A2	Pick next component file		1					
A3	Select Matching File (2050)		1					
A4	Record load start time		1					
A5	Start load of component file		1					
	DISPOSITION	Done	C2	C1	Done			

Fig. 212 - ACL Perform Scene Load Processing 2040

2050	Active Content Loader Select Matching File						 ,	
Cl	Is there more than one possible file?	No	Yes					
C2	Is there an exact bandwidth and cpu match?		Yes	No				-
C3	Are there files with lower bandwidth and lower cpu?			Yes	No			
C4	Are there files with lower cpu and higher bandwidth				Yes	No		
A1	Select the only file	1						
A2	Select exact match file		1					
A3	Select file with largest bandwidth <= to actual bandwidth and with largest cpu requirement <= to actual cpu capability			1				
A4	Select file with smallest bandwidth >= actual bandwidth and with largest cpu requirement <= actual cpu capability				1			
A5	Compute distances of file requirements from actual capabilities					1		
A6	Select file with smallest overall distance					1		
	DISPOSITION	Done	Done	Done	Done	Done		

Fig. 213 – ACL Select Matching File 2050

2060	Active Content Loader Report Load to Bandwidth Speedometer					
Cl	Entry?	Yes				
A1	Compute load time	1				
A2	Compute bytes per second for this load	1				
A3	Compute running average of all loads	1	 	_	-	
A4	Set bandwidth selector	1				
1	DISPOSITION	Done				

Fig. 214 - ACL Report Load to Bandwidth Speedo 2060

2070	Active Content Loader CPU Speedometer				,	 	
C1	Is it time to measure the CPU again?	Yes	No				
A1	Execute timed loop	1					
A2	Compute instructions per second	1					
A3	Compute running average of CPU speed	1					
A4	Use CPU speed and frame rate to set CPU selector	1					
	DISPOSITION	C1	C1				

Fig. 215 – ACL CPU Speedometer 2070

2080	Active Content Loader Frame Rate Speedometer					
C1	Is it time to measure the frame rate again	?Yes	No			
A1	Execute timed frame loop	1				
A2	Compute frames per second	1				
A3	Compute running average of frame rate	1				
A4	Use CPU speed and frame rate to set CPU selector	1				
	DISPOSITION	C1	C1			

Fig. 216 – ACL Frame Rate Speedometer 2080